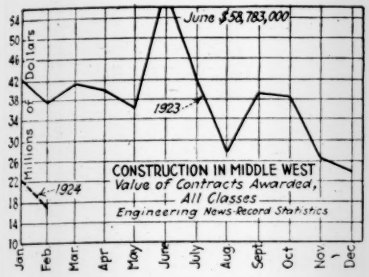
CONSTRUCTION NEWS

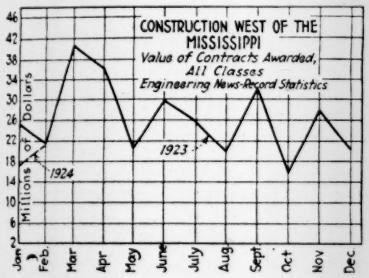
Engineering News-Record, March 20, 1924

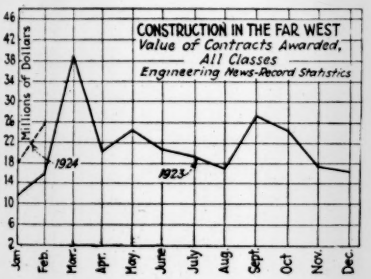
The Construction Barometer

February Contracts Exceeded January for First Time Since 1921— Heavy March Construction Volume Indicated

FEBRUARY contracts for engineering construction published in *Engineering News-Record*, exceeded the January value, except in New England and the Middle West. This February rise has not occurred since 1921. Record February permits point to heavy building lettings in March. This is the more likely, since lumber and steel prices are easier and prices of other basic materials are steady.







Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Feb. 28	$18,333,000	$30,839,000	$49,172,000
Mar. 6	18,660,000	15,917,000	34,577,000
Mar. 13	18,513,000	13,398,000	31,911,000
3 weeks	$55,506,000	$60,154,000	$115,660,000

LARGE BUILDING CONTRACTS NUMBER AND VALUE

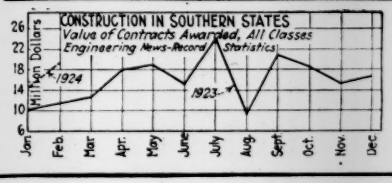
Week Ended	No.	Public Work	No.	Private Work
Feb. 28	22	$5,556,000	47	$14,061,000
Mar. 6	12	5,300,000	36	9,438,000
Mar. 13	10	4,251,000	35	11,575,000
3 weeks	44	$16,107,000	118	$35,074,000

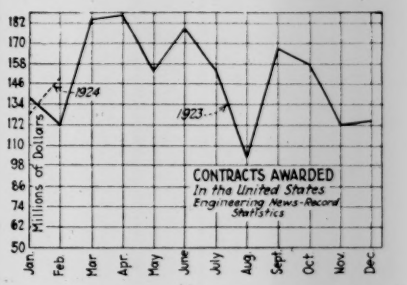
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

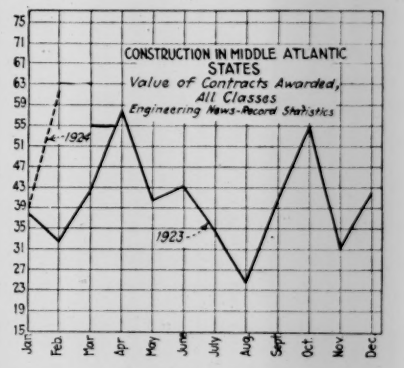
Week Ended	Private	All Buildings	Public Streets and Roads	Public Waterworks and Sewers	All Public
Feb. 28	41	60	61	33	188
Mar. 6	45	70	80	35	229
Mar. 13	41	64	71	40	227

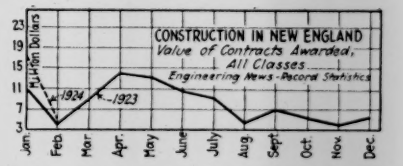
PINE AND STEEL PRICES EASIER— OTHER BASIC PRICES STEADY

	Quoted on Mar. 20 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.30 @2.50	$2.40 @2.50	Mar. 13
Cement, Chi. net bbl.	2 20	2.10	Jan. 24
Pine, N. Y. m. ft.	61.00	65.00	Mar. 13
Fir, San Fran., m. ft.	36.00	38.00	Jan. 24
Common labor, hr.	.55	.54	Feb. 28









PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Mar. 21	Trenton, N. J.	Mar. 13
Mar. 24	Park Ridge, N. J.	Mar. 6
Mar. 24	Michigan City, Ind.	Mar. 20
Mar. 24	Herkimer, N. Y.	Mar. 20
Mar. 25	Long Island City, N. Y.	Mar. 20
Mar. 25	Phila., Pa.	Mar. 20
Mar. 25	Ferriday, La.	Mar. 13
Mar. 25	Minneapolis, Minn.	Mar. 20
Mar. 26	Litchfield, Ill.	Feb. 21
Mar. 26	Long Island City, N. Y.	Mar. 20
Mar. 26	St. George, N. Y.	Mar. 20
Mar. 27	Dunn, N. C.	Mar. 6
Mar. 27	Newberry, S. C.	Mar. 6
Mar. 27	Long Island City, N. Y.	Mar. 20
Mar. 27	Brooklyn, N. Y.	Mar. 20
Mar. 28	New York, N. Y.	Mar. 20
Mar. 31	Barberton, O.	Mar. 13
Mar. 31	Chatham, Va.	Mar. 20
Mar. 31	Port Colborne, Ont.	Mar. 20
Apr. 2	Sanitorium, N. C.	Mar. 20
Apr. 2	Dunkirk, N. Y. Adv. Mar. 20.	Mar 20
Apr. 4	Patton, Pa. Adv. Mar. 20.	Mar. 20
	SEWERS	
Mar. 21	Wash., D. C.	Mar. 13
Mar. 24	West Allis, Wis.	Mar. 20
Mar. 25	Trenton, N. J.	Mar. 13
Mar. 25	Oilton, Okla.	Mar. 13
Mar. 25	LaPorte, Ind.	Mar. 20
Mar. 25	Long Island City, N. Y.	Mar. 20
Mar. 28	Sharon, Pa.	Mar. 20
Mar. 28	Cameron, Mo.	Mar. 20
Apr. 1	Toledo, O. Adv. Mar. 6 to 20.	Mar. 6
Apr. 1	Erie, Pa. Adv. Mar. 13 and 20.	Mar. 20
Apr. 2	Sayreville, N. J.	Mar. 20
Apr. 2	Butte, Mont.	Mar. 20
Apr. 5	Pottstown, Pa. Adv. Mar. 13 and 20.	Mar. 13
Apr. 8	Springfield, Mass.	Mar. 13
Apr. 15	Elizabethtown, Pa. Adv. Mar. 20.	Mar. 20
	WASTE DISPOSAL	
Mar. 24	Michigan City, Ind.	Mar. 20
Mar. 25	Indianapolis, Ind.	Mar. 20
Mar. 25	Maspeth (Independent Sta. Flushing), N. Y.	Mar. 20
Mar. 28	Detroit, Mich.	Mar. 20
Apr. 9	East Chester (Grey Court P. O.), N. Y. Adv. Mar. 20.	Mar. 20
	BRIDGES	
Mar. 24	Aurora, Ill.	Mar. 20
Mar. 25	Springfield, Mass.	Mar. 6
Mar. 25	North Carolina	Mar. 13
Mar. 25	Primghar, Ia.	Mar. 20

Bids Close		See Eng. News-Record
Mar. 25	Reedsburg, Wis.	Mar. 20
Mar. 27	Buffalo, N. Y.	Mar. 6
Mar. 27	Youngstown, O. Adv. Mar. 13 and 20.	Mar. 13
Mar. 27	South Dakota	Mar. 20
Mar. 27	Louisiana	Mar. 20
Mar. 31	Houston, Tex.	Mar. 6
Mar. 31	Alabama	Mar. 6
Mar. 31	Vancouver, B. C.	Mar. 13
Mar. 31	Rochelle Park, N. J. Adv. Mar. 13 and 20.	Mar. 13
Mar. 31	Pine Bluff, Ark.	Mar. 20
Apr. 1	Portland, Ore.	Mar. 6
Apr. 1	Clarksville, Tenn.	Mar. 13
Apr. 1	Pennsylvania	Mar. 13
Apr. 1	Kansas City, Kan.	Mar. 20
Apr. 3	Iola, Kan.	Mar. 20
Apr. 7	Alabama	Mar. 13
Apr. 7	Sacramento, Calif.	Mar. 13
Apr. 7	California	Mar. 20
Apr. 7	Chehalis, Wash.	Mar. 20
Apr. 8	West Virginia Adv. Mar. 13 and 20.	Mar. 13
Apr. 14	Eufaula, Ala.	Mar. 20
Apr. 15	Chamberlain, S. D.	Mar. 13
May 1	Tientsen, North China	Oct. 11

DAMS

Mar. 27	Tacoma, Wash.	Mar. 6

RAILWAYS

Mar. 26	Florida	Mar. 20
Mar. 28	New York	Mar. 20
Apr. 1	Indiana	Jan. 24
Apr. 15	New York Adv. Mar. 20.	Mar. 20

EXCAVATION, DRAINAGE IRRIGATION

Mar. 25	Newport, Ark.	Mar. 20
Mar. 25	Audubon, Ill.	Mar. 20
Mar. 27	Pine Bluff, Ark.	Mar. 20
Mar. 31	Olivia, Minn.	Mar. 20
Mar. 31	Emmetsburg, Ia.	Mar. 20
Mar. 31	Terra Bella, Calif.	Mar. 20
Apr. 2	Oroville, Calif.	Mar. 20
Apr. 3	Buffalo, N. Y. Adv. Mar. 13 and 20.	Mar. 13
Apr. 15	Rochester, N. Y. Adv. Mar. 20.	Mar. 20
Apr. 15	New York Adv. Mar. 20.	Mar. 20
May 6	Minneapolis, Minn.	Mar. 20

STREETS AND ROADS

Mar. 21	Cresson, Pa.	Mar. 6
Mar. 24	Moorhead, Minn.	Mar. 6
Mar. 24	Michigan	Mar. 13
Mar. 24	Black Mountain, N. C.	Mar. 20
Mar. 25	Minnesota	Mar. 6
Mar. 25	Greenville, Tex.	Mar. 13
Mar. 25	Michigan	Mar. 13
Mar. 25	North Carolina	Mar. 13
Mar. 25	New York, N. Y.	Mar. 20
Mar. 25	Mt. Clemens, Mich.	Mar. 20
Mar. 25	Austin, Tex.	Mar. 20
Mar. 25	East Cleveland (Cleveland P. O.), O.	Mar. 20
Mar. 25	Kitchener, Ont.	Mar. 20
Mar. 25	Steubenville, O.	Mar. 20
Mar. 25	Long Island City, N. Y.	Mar. 20
Mar. 26	New London, Conn.	Mar. 6
Mar. 26	Delaware	Mar. 6
Mar. 26	Providence, R. I.	Mar. 6
Mar. 26	New Jersey	Mar. 13
Mar. 26	Marshfield, Wis.	Mar. 13
Mar. 26	Fairmount, W. Va.	Mar. 13
Mar. 26	Harrisburg, Pa. Adv. Mar. 13 and 20.	Mar. 13
Mar. 26	Jacksonville, Fla.	Mar. 13
Mar. 26	Maryland Adv. Mar. 13 and 20.	Mar. 13
Mar. 26	Nevada	Mar. 20
Mar. 26	Brooklyn, N. Y.	Mar. 20
Mar. 27	Michigan	Mar. 13
Mar. 27	Belzoni, Miss. Adv. Mar. 13 and 20.	Mar. 13
Mar. 27	Oakhurst, N. J. Adv. Mar. 20.	Mar. 20
Mar. 27	Newark, N. J.	Mar. 20
Mar. 27	Towson, Md.	Mar. 20
Mar. 27	South Dakota	Mar. 20
Mar. 28	New Hampshire	Mar. 20
Mar. 31	Pennsylvania Adv. Mar. 13 and 20.	Mar. 13
Mar. 31	Escanaba, Mich.	Mar. 13
Mar. 31	Wisconsin	Mar. 20
Mar. 31	St. Paul, Minn	Mar. 20
Mar. 31	Los Angeles, Calif.	Mar. 20
Apr. 1	St. Louis, Mo.	Mar. 6
Apr. 1	Lewisburg, W. Va. Adv. Mar. 13 and 20.	Mar. 13
Apr. 1	Pennsylvania Adv. Mar. 13 and 20.	Mar. 13
Apr. 1	Kentucky	Mar. 20
Apr. 2	Abbeville, La.	Mar. 13
Apr. 2	Ontario	Mar. 13
Apr. 2	Benson, N. C.	Mar. 13
Apr. 2	Mankato, Minn.	Mar. 20
Apr. 2	Michigan	Mar. 20
Apr. 3	Canton, S. D.	Mar. 13
Apr. 3	Iola, Kan.	Mar. 20
Apr. 4	Atchinson, Kan.	Mar. 20
Apr. 4	Mantorville, Minn.	Mar. 20
Apr. 4	Cherryville, N. C.	Mar. 20
Apr. 4	Tennessee	Mar. 20
Apr. 4	New York Adv. Mar. 20.	Mar. 20
Apr. 4	Winchester, Ind.	Mar. 20
Apr. 7	Alabama	Mar. 13
Apr. 7	Pennsylvania Adv. Mar. 20.	Mar. 20
Apr. 7	Elbow Lake, Minn.	Mar. 20
Apr. 7	White Plains, N. Y. Adv. Mar. 20.	Mar. 20
Apr. 7	Michigan	Mar. 20
Apr. 7	Princeton, N. J.	Mar. 20
Apr. 7	California	Mar. 20
Apr. 8	Summersville, Va.	Mar. 6
Apr. 8	Paterson, N. J. Adv. Mar. 20.	Mar. 20
Apr. 8	Milton, Fla.	Mar. 20
Apr. 8	Wabash, Ind.	Mar. 20
Apr. 8	Salem, N. J. Adv. Mar. 20.	Mar. 20
Apr. 8	Pennsylvania Adv. Mar. 20.	Mar. 20
Apr. 9	Delaware Adv. Mar. 20.	Mar. 20
Apr. 9	Freehold, N. J. Adv. Mar. 20.	Mar. 20
Apr. 10	Port Gibson, Miss. Adv. Mar. 20.	Mar. 13
Apr. 14	St. Albans, W. Va.	Mar. 20
Apr. 15	Tonawanda, N. Y. Adv. Mar. 20.	Mar. 20
May 1	Duluth, Minn.	Mar. 20
May 1	Duluth, Minn.	Mar. 20

INDUSTRIAL WORKS

Mar. 31	Louisville, Ky.	Mar. 13
Apr. 2	Morris Plains, N. J.	Mar. 13
Apr. 17	Buffalo, N. Y. Adv. Mar. 20.	Mar. 20
May 21	Wellington, New Zealand	Jan. 10

BUILDINGS

Mar. 21	Lockport, N. Y.	Feb. 21
Mar. 21	Troy, N. Y.	Mar. 6
Mar. 21	Bloomsburg, Pa.	Mar. 13
Mar. 24	Easton, Pa.	Feb. 28
Mar. 24	St. Louis, Mo.	Mar. 6
Mar. 24	Phila., Pa.	Mar. 6
Mar. 24	Providence, R. I.	Mar. 20
Mar. 24	Mt. Carmel, Pa.	Mar. 20
Mar. 25	Stony Creek Mills, Pa.	Mar. 6
Mar. 25	Greensboro, N. C.	Mar. 13
Mar. 25	Brooklyn, N. Y.	Mar. 13
Mar. 25	Ozone Park (Jamaica P. O.), N. Y.	Mar. 13
Mar. 25	St. Paul, Minn.	Mar. 13
Mar. 25	Dallas, Tex.	Mar. 20
Mar. 26	Greenville, Tex.	Mar. 13
Mar. 26	La Crosse, Wis.	Mar. 13
Mar. 26	Somerville, N. J.	Feb. 21
Mar. 26	Buffalo, N. Y.	Mar. 6
Mar. 26	Mahanoy City, Pa.	Mar. 13
Mar. 26	Toledo, O.	Mar. 20
Mar. 26	Jenkinstown, Pa.	Mar. 20
Mar. 26	Beverley Hills, Calif.	Mar. 20
Mar. 27	Newark, N. J.	Mar. 13
Mar. 27	Kimberly, Wis.	Mar. 20
Mar. 28	Pueblo, Colo.	Mar. 6
Mar. 28	North Plainfield (Watchung P. O.), N. J.	Mar. 20
Mar. 28	Greenville, Ky.	Mar. 20
Mar. 31	Wilson, N. C.	Mar. 13
Mar. 31	Columbus, O.	Mar. 20
Mar. 31	Hopkins, Minn.	Mar. 20
Mar. 31	Los Angeles, Calif.	Mar. 20
Apr. 1	Duluth, Minn.	Feb. 7
Apr. 1	Atlantic City, N. J.	Feb. 7
Apr. 1	Brainerd, Minn.	Feb. 28
Apr. 1	San Bernardino, Calif.	Mar. 6
Apr. 1	Oshkosh, Wis.	Mar. 13
Apr. 1	Akron, O.	Mar. 13
Apr. 1	Emporia, Kan.	Mar. 20
Apr. 1	Memphis, Tenn.	Mar. 20
Apr. 3	Paso Robles, Calif.	Mar. 20
Apr. 3	Marshall, Tex.	Mar. 20
Apr. 5	Lebanon, Ky.	Mar. 20
Apr. 7	Whitewater, Wis.	Mar. 13
Apr. 8	New York, N. Y.	Mar. 13
Apr. 8	Brooklyn, N. Y.	Mar. 13
Apr. 8	Astoria (Long Island City P. O.), N. Y.	Mar. 13
Apr. 8	Brooklyn, N. Y.	Mar. 20
Apr. 9	Beatrice, Neb.	Mar. 20
Apr. 9	Buffalo, N. Y.	Mar. 20
Apr. 15	Somerset, Pa.	Mar. 20
May 1	Youngstown, O.	Feb. 7

FEDERAL GOVERNMENT WORK

Mar. 21	Reservoirs—Wash., D. C. Adv. Mar. 13 and 20.	Feb. 21
Mar. 25	Road Work, etc.—Fort Wright, (Fishers Island P. O.), N. Y.	Mar. 6
Mar. 25	Laundry Equipment—Knoxville, Ia.	Mar. 13
Mar. 26	Post Office—Midland, Mich.	Mar. 13
Mar. 28	Ice and Refrigerating Plant —Livermore, Calif.	Feb. 14
Mar. 28	Dredging — Providence, R. I. Adv. Feb. 28 to Mar. 20.	Feb. 28
Mar. 28	Plumbing System—Wash., D. C.	Mar. 13
Mar. 31	Fuel Oil Pump, etc.—Memphis, Tenn. Adv. Mar. 20.	Mar. 20
Apr. 1	Pumps, etc.—Tobyhanna, Pa.	Mar. 20
Apr. 2	Roads—Phoenix, Ariz.	Mar. 6
Apr. 2	Surface—San Diego, Calif.	Mar. 20
Apr. 4	Post Office—Orange, Tex.	Mar. 13
Apr. 4	Dredging—New York, N. Y.	Mar. 13
Apr. 7	Power Houses—Cincinnati, O. Adv. Mar. 20.	Mar. 20
Apr. 8	Cement—Louisville, Ky. Adv. Mar. 13 and 20.	Mar. 13
Apr. 12	Dredging — Providence, R. I. Adv. Mar. 13 and 20.	Mar. 13
Apr. 15	Post Office — Hastings, Mich. Adv. Mar. 20.	Mar. 20
Apr. 18	Riprap—Detroit, Mich. Adv. Mar. 20.	Mar. 20
Apr. 19	Excavating—Wilmington, Del. Adv. Mar. 20.	Mar. 20
Apr. 22	Steel Gates — Florence, Ala. Adv. Mar. 13 and 20.	Mar. 13

UNCLASSIFIED

Mar. 22	Steel Shed—Charleston, S. C.	Mar. 6
Mar. 24	Heating and Ventilating Apparatus — Richmond Hill (Branch of Jamaica), N. W.	Mar. 20
Mar. 24	Heating and Ventilating Apparatus—Flushing, N. Y.	Mar. 20
Mar. 24	Heating and Ventilating Apparatus—New York, N. Y.	Mar. 20
Mar. 25	Grade Separation—Detroit, Mich.	Mar. 20
Mar. 25	Lock—Marked Tree, Ark.	Mar. 20
Mar. 25	Jetty—Belmar, N. J. Adv. Mar. 13 and 20.	Mar. 13
Mar. 26	Chimney—Rocky Mount, N. C.	Mar. 6
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 1	Electric Light Line—North Carolina	Mar. 20
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13

MATERIAL AND EQUIPMENT

Mar. 21	Track Material—New York, N. Y.	Mar. 13
Mar. 24	Road Oil, etc.—Minneapolis, Minn.	Mar. 13
Mar. 24	Cement—Milwaukee, Wis.	Mar. 20
Mar. 25	Street Signs, Asphalt Filler, etc.—St. Paul, Minn.	Mar. 13
Mar. 25	Paving Materials — St. Paul, Minn.	Mar. 20
Mar. 25	Asphalt, etc. — Holyoke, Mass.	Mar. 20
Mar. 25	Dump Trucks—Long Island City, N. Y.	Mar. 20
Mar. 26	Asphalt Cold Mix—Evansville, Ind.	Mar. 13
Mar. 26	Refined Tar—Clayton, Mo.	Mar. 20
Mar. 28	Cement—Alabama	Mar. 6
Mar. 28	Bituminous Material—Albany, N. Y. Adv. Mar. 20.	Mar. 20
Mar. 31	Tractors—San Antonio, Tex.	Mar. 20
Mar. 31	Cast Steel Castings, etc.—St. Louis, Mo.	Mar. 20
Apr. 2	Road Machines—Grand Forks, N. D.	Mar. 20
Apr. 3	Stone Crusher—Platteville, Wis.	Mar. 20
Apr. 7	Reinforcing Bars and Spirals —Minnesota	Mar. 20
Apr. 16	Power House Equipment—Tacoma, Wash. Adv. Mar. 13 and 20.	Mar. 13

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Chicopee—Making plans reservoir, 5 m.g. capacity. F. P. Cobb, City Hall, engr.

Mass., Greenfield — Plans laying 3 mi pipe line through Green River Dist. $175,000. H. L. Field, 243 Federal St., engr.

N. Y., Binghamton—Takes bids in April mains in various streets. To exceed $85,000. Address B. Winsor, comr. Pub. Wks.

Waterworks (Continued)

Pa., Somerset—Plans concrete and stone reservoir and new wells. $30,000. F. B. Fluck, boro engr.

N. C., Raleigh—City authorized issue of $150,000 bonds, enlarging water supply system. W. C. Olsen, Raleigh engr.

N. C., Rocky Mount—City plans to expend $75,000, improving water supply. W. C. Olsen, Raleigh, engr.

La., Lafayette—Mar. 27, to vote on $200,000 bonds, improving and extending waterworks and addition to electric light plant.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Bd. Fire Comrs., made plans additional water main equipment, incl. 300 six in. double Detroit standard fire hydrants, 300 six in. Detroit standard gate valves and 300 Morgan gate boxes, etc.

Ill., Jonesboro—Voted bonds and soon takes bids waterworks plant, tank on tower and 4- and 6-in. distribution mains. $42,000. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs. Noted Feb. 21.

Ill., Marengo—Making plans municipal water supply. Randolph-Perkins Co., First Natl. Bank Bldg., Chicago, consult. engrs.

Wis., Menomonee Falls—Having plans prepared water and sewerage systems, incl. 1 mi. 6- to 12-in. c.i. pipe and approximately 1 mi. 8- to 15-in. sewer pipe, elevated steel water tank and sewage disposal plant. W. F. Reichardt, Watertown, engr. Noted Feb. 7.

Wis., Milwaukee — Making plans 6,300 lin.ft. 54 in. c.i. mains in Humboldt Ave. from Riverside Pumping Station to Hadley St., in Hadley St. to Booth St. and in Booth St. to North Ave. $300,000. J. Schwada, city clk.

Wis., Mukwonago—E. A. Austin plans to improve waterworks, mains, sewage disposal plant, etc. $15,000. Engineer not selected.

N. D., Carrington—Election in April to vote on $15,000 bonds for new unit of well, etc. C. A. Carnahan, city aud.

Mo., St. Joseph — St. Joseph Water Co. soon takes bids ten 1 m.g. filter units, 5 m.g. settling basin, mains, 2 centrifugal pumps, etc. $600,000. W. K. Seitz, city engr. Noted Feb. 7.

Tex., Port Arthur — Having plans prepared main extensions. Will sell $119,500 bonds. J. O. Herpin, Port Arthur, engr. Noted Jan. 31.

Okla., Bartlesville—Making preliminary plans dam 50 ft. high, 1,000 ft. long, earth with concrete core wall 20 in. c.i. pipe line to pumping plant of 5 m.g. capacity four 1 m.g. filter units, 2 m.g. rein.-con. storage reservoir, 34 mi. c.i. distributing mains. $1,000,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Aug. 30.

Okla., Tipton—Plans new waterworks, incl. well, triplex pumps, tank, tower, hydrants, fire hose and fire trench, 8,000 ft. 4- and 6-in. c.i. pipe. $46,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 6.

Calif., Culver City—Having plans prepared complete waterworks. To exceed $200,000. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

Calif., San Bernardino — Bear Valley Utility Co. will take bids in April 6 mi. of 4- to 12-in. riveted steel pipe, 2 wells, 2 pumps and concrete reservoir. $115,000. R. H. Nicholson, 1350 Orange St., Los Angeles, engr. in charge. C. H. Loveland, Merchants Exch. Bldg., San Francisco, engr.

Calif., San Luis Obispo—Had plans prepared water supply system: concrete dam 55 ft. high, 440 ft. long on top, 150 ft. long on bottom, 1:3:5 mix concrete storage dam, 65 ft. high, 350 ft. long on top, 150 ft. long on bottom, 117,000 lin.ft. 18 in. wood stave pipe line. From $500,000 to $600,000. W. L. Huber, 1st Natl. Bank Bldg., San Francisco, consult. engr.

Ont., Chippawa—Election in April to vote on $50,000 bonds, water and sewer system. A. W. Connor, 34 Victoria St., Niagara Falls, engr.

BIDS DESIRED

N. Y., Brooklyn — Mar. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Fillmore, Island, Narrows and Williams Aves., Aves. N, P and Y, Delamere, Elmore and Kenmore Places, Banker, Dauglass, Hendrickson, Herzl, Percival, Smith, 54th, 56th, 63rd, 73rd, 77th, 94th, East 12th, East 27th, East 31st, East 93rd, West 6th, West 11th and West 12th Sts., here.

N. Y., Dunkirk — Apr. 2, by Bd. City Water Comrs., 8 m.g. additional pump in pump house, Robin and Front Sts. J. Mehan, P. M. King, and F. Rosing, com.; adv. E. N.-R. Mar. 20.

N. Y., Herkimer—Mar. 24, 320 tons 10 in., 4 tons 6 in. and 2 tons 8 in. Class B, bell and spigot pipe, 8 tons specials, fourteen 6 in., five 8 in., twenty-six 10 in., and one 16 in. valves. A. T. Clark, supt. Municipal Comn. of Herkimer. Noted Dec. 27.

N. Y., Long Island City—Mar. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ava Pl., Putney Rd., 6th, 13th, 33rd, 35th, and 72nd Aves., Gardiner, 4th, 6th, 16th, 19th, 160th, 161st, 202nd and 203rd Sts., here.

N. Y., Long Island City—Mar. 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Beach 32nd St., Dickens, Dix, Mott and Redfern Aves., Amstel, Far Rockaway and Regina Blvds., here.

N. Y., Long Island City—Mar. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Washington, Wilson, 4th, 6th, 7th and 9th Aves., Chauncey, Front, 4th, Hancock, Kindred, Marion and Sherman Sts., here.

N. Y., New York—Mar. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in East 177th St., Banyer Pl., Pelham Parkway S., Blair, Crosby, Ferris, Lawton, Logan, Mahan, Pennyfield, Prentiss, Randall, Reynolds, Wissman, Britton, Bronxwood, Duncomb, Fetley, Haight, Lurting, Lydig, Olinville, Patterson, Paulding and St. Lawrence Aves., Bronx Boro.

N. Y., St. George—Mar. 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Tompkins Pl., Manor and School Rds., Lookout, Pelton, Rockland and Van Name Aves., here.

Pa., Patton—Apr. 4, by Boro., 1,500,000 gal. per day rapid sand filtration plant, pumping station, pumps, etc. J. N. Chester, Engineers, Union Bank Bldg., Pittsburgh, engrs.; adv. E. N.-R. Mar. 20.

Pa., Phila.—Mar. 25, by Dept. Pub. Wks., Room 216, City Hall, 9,700 lin.ft. 36 and 48 in. c.i. and steel mains in Hunting Park Ave., Contr. 664; 930 tons 12 in. c.i. mains in Castor, Rahn and Cotman Sts., Contr. 665; 550 tons 24 in. c.i. mains in 12th St., Contr. 666; condenser shells, piping, fittings, valves, etc., at Lardner Pumping Sta., Contr. 667.

Va., Chatham—Mar. 31, by Mayor and Town Council, filtration and pumping plant for waterworks, force main, steel tanks, oil storage, with gravity feed, etc., work includes small dam and intake crib on Cherrystone Creek, with raw water line, concrete pump well, combined concrete and brick filter and pump station, 10,000 gal. steel wash tank, 4,100 ft. 6 in. c.i. force main, classes B, C and D, with all necessary piping about plant, one low and one high service centrifugal pumps, direct connected to motor, one low and one high service centrifugal pumps, for belt drive, one semi-Diesel fuel oil engine, with air starter outfit, all filter equipment for 360,000 g.p.d. unit, 150,000 gal. hemispherical bottom steel tank, with tower, 10,000 gal oil tank with about 1,500 ft. 2 in. gravity feed. Ambler Eng. Co., Old Dom. Trust Bldg., Richmond, engrs.

Ind., Michigan City—Mar. 24, by Comn. of City at office of E. J. Heise, city clk., furnishing 100 tons Class B, 6-in. c.i. pipe, tees, plugs, hydrants, gate and valve boxes, and 3 tons pig lead, for Water Dept.

Ill., McLeansboro — City Clerk taking bids and opens same about Apr. 1, one 250 kw. uniflow engine. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs.

Ill., Metropolis—R. Finney, city clk., City Hall, taking bids and opens same about Apr. 1, power and waterworks plant, incl. 500 kw. turbine and uniflow engines, 158-ft. smokestack, 20,000 ft. 4- to 10-in. c.i. pipe, 100,000 gal. tank on tower, 100,000 gal. concrete storage reservoir, two 700 g.p.m. centrifugal pumps, and 1,000 g.p.m. pump, also 45 x 90 ft. building, brick and concrete. $170,000. Send all inquiries to W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs.

Minn., Minneapolis—Mar. 25, by F. S. Gram, city purch. agt., 40 tons structural material and special castings for new filter plant. N. W. Elsberg, city engr.

Neb., Republican — Mar. 20, improving waterworks system, $20,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Jan. 3.

Wash., Kalama—Taking bids new water system. Will enlarge reservoir to 500,000 gal. capacity. Voted $75,000 bonds. Noted Jan. 17.

Ont., Grimsby—Taking bids 5,566 ft. 6 in. c.i. mains, 6,332 ft. 3 in. w.i. mains, valves, boxes, hydrants, etc. $30,000. F. N. Rutherford, St. Catharines, engr.

Ont., Port Colborne—Mar. 31, by I. H. White, town clk., 55 x 60 ft. pumping building, two 750 gal. motor driven service pumps, one 1,500 gal. gasoline driven fire pump with piping, 3 pressure filter units. $55,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engrs. Noted Nov. 1.

BIDS RECEIVED

O., Cleveland — Cuyahoga Co. Mar. 5, 24,000 ft. 6, 8 and 10 in. c.i. mains in Impvt. 48, from Salem & George Bros., Erie Bldg., $110,412.

Ill., Villa Grove—City Council, Mar. 5, 629 ft. well, from Ohio Drilling Co., Massillon, O., $6,720 and $3.50 per hr. for finishing work and testings; motor driven deep well pump, from Rumsey Pump Co., Ltd., 53 West Jackson St., Chicago, $3,350. Will soon let contract for pump house. Noted Feb. 28.

Wis., Milwaukee — Power piping for Riverside Pumping Station, from Industrial Heating & Eng. Co., 143 Oneida St., $29,800.

Mo., Kansas City—M. H. Raming, purch. agt., City Hall, Mar. 11, additional water supply Missouri Valley tunnel, Contr. 1, from Tibbets & Pleasant, 229 North Nogales St., Tulsa, Okla., total $1,395,412, guaranteed time 747 days, credit time 653 days, deduction $163,250, total for comparison of bids $1,232,162. Noted Feb. 21.

Mo., Kansas City—M. H. Raming, city purch. agt., City Hall, Mar. 13, additional water supply East Bottoms and Turkey Creek Tunnels, Contr. 2, from Byrne Bros. Constr. Co., 358 East 115th St., Chicago, total $1,873,295, guaranteed time 700 days, credit time 100 days, deduction $30,000, total for comparison of bids $1,843,295. Noted Feb. 21.

Calif., Santa Monica—Trenching, furnishing, backfilling and laying pipe for waterworks, from C. Fisher, Wright-Callendar Bldg., Los Angeles, $662,495; Schultz Constr. Co, 46 Kearny St, San Francisco, $725,190. Noted Jan. 31.

Calif., Vernon (Watts P. O.)—Constructing 3 m.g. reservoir, from Kinne & Westerhouse, H. W. Hellman Bldg., Los Angeles, $20,500. Noted Feb. 28.

CONTRACTS AWARDED

N. Y., Brooklyn—Bd. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ave. L, 2nd Ave., 37th, 42nd, Bridge, Sands and Clinton Sts., to Wattaga Contg. Co., $129,756. Noted Mar. 6.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Stillwell and Warehouse Aves., West 5th and 6th Sts., etc., to Paladino Contg. Co., 437 East 120th St., New York, $32,225. Noted Feb. 14.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Riverside Terrace, Bennett and 12th Aves., West 12th, West 40th, 46th and 186th Sts., also fire hydrants on existing mains in Ave. A, Bway., East Bway., Riverside Dr., Bayard, James, Madison, Oak, Water and West 153rd Sts., to W. J. Drummond, $41,781. Noted Mar. 6.

N. C., Greensboro—Laying 46- to 50-mi. water and sewer mains, to C. P. Howard, Raleigh, $260,792. Former contract rescinded. Noted Mar. 6.

O., Cleveland—Cuyahoga Co., 12,000 ft. 6 and 8 in. c.i. mains, Impvt. 45, to Langahan Constr. Co., Marshall Bldg., $48,920. Noted Feb. 21.

Ind., Bloomington—Bloomington Water Co., waterworks improvements, incl. dam, pumping station and pipe lines, to A. Phelps & Sons, Knoxville, Ia., $274,894. Noted Jan. 24.

Ill., East St. Louis—East St. Louis and Interurban Water Co. soon lets contract increasing capacity of pumping plant to make room for additional 2,500,000 gal. pumping unit, raising roof, rearranging boilers and extending building 50 feet. $60,000. Contract for 2,500,000 gal. pump let to Allis Chalmers Co., 50 Church St., New York City.

Ill., East St. Louis—See Proposed Work.

Ill., Trenton—City, steel tank on tower to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $5,000; 400 g.p.m.

Waterworks (Continued)

pump and 25 hp. G. E. engine to Farrar Pumps & Mchy. Co., Granite Bldg., St. Louis, Mo., $720; foundation for pumps, etc., to J. M. Colligan, Trenton, $547. Will let contract later for 1.5 mi. 4- and 6-in. c.i. pipe laid. Noted Nov. 15.

Wis., Genoa Junction—Pumping station brick and steel, and storage reservoir, rein.-con., to W. E. Stone, Whitewater. Engrs. est. $15,000. Noted Jan. 10.

Minn., Red Wing—Reservoir, 1 m.g. capacity: excav. for reservoir to C. W. Johnson, Red Wing, $4,975; reservoir proper to A. C. Rhodes Co., Guthrie Center, Ia., $18,638; centrifugal pump to F. T. Hildred & Co., 108 East 3rd St., St. Paul, $3,097; air-lift pump to Worthington Pump & Mchy. Corp., 1017 Commerce Bldg., St. Paul, $4,194. Noted Feb. 28.

Wash., Tacoma — Furnishing materials for gravity pipe line, creosoted wood staves, to Amer. Wood Pipe Co., South 32nd and Cedar Sts., $52,521. Noted Nov. 15.

Calif., Gilroy—Extensions to water system, incl. 4, 6, 10 and 14 in. c.i. pipe, to M. Murphy, 1321 Milvia St., Berkeley, $63,421. Noted Sept. 6.

Calif., Los Angeles—For 18,600 ft. 20 in. c.i. pipe, 4 metre lengths, to Grinnell Co. of the Pacific, 439 East 3rd St. $4.39 ft.

Calif., San Francisco — City and San Francisco Co., flexible joint c.i. pipe for submarine portion Hetch Hetchy aqueduct bay crossing division, to United States Cast Iron Pipe & Fdry. Co., Monadnock Bldg., San Francisco, $196,802. Noted Mar. 6.

Calif., San Francisco — City and San Francisco Co., two 42 in., one 36 in. and four 20 in. gate valves for Hetch Hetchy project, to Union Machine Co., 934 Brannan St., $18,335. Noted Mar. 6.

Sewers

PROPOSED WORK

Conn., New Britain—Plans 5,000 ft. 18-in. concrete sewer. $25,000. Address City Engineer.

Pa., Johnstown—Plans sanitary sewers in Moxham and Woodvale Dists. $500,000 bonds to be voted on in April. H. L. Wilson, 184 Worth St., engr.

Fla., Palm Beach — Election Mar. 31, $75,000 bonds extending sewerage system.

Ala., Florence—Takes bids about Apr. 1, 3,500 lin.ft. 7 ft. storm sewer. W. M. Paxton, City Hall, engr.

O., Columbus—See "Streets and Roads."

O., Columbus—Making plans 9,100 ft. 6- to 10-in. sanitary sewer in alleys north of 5th Ave., $16,122; 10,579 ft. 6- to 10-in. sanitary sewer in 3rd Ave, $18,805. R. H. Simpson, city engr.

Mich., Detroit—Dept. Pub. Wks. had plans prepared 1,475 ft. 3 ft. 6 in. cylinder and 320 ft. 24 in. crock sewers in Oakman Blvd. G. Jerome, city engr.

Mich., Detroit—Dept. Pub. Wks., having plans prepared vitr. crock and brick sewers, 3,030 ft. in Lateral 3977, 2,625 ft. Lateral 4080, 1,126 ft. Lateral 4084, 1,368 ft. Storm Sewer 4090, 1,348 ft. Storm Sewer 4091, 1,331 ft. Storm Sewer 4092. G. Jerome, city engr.

Mich., Flint—Plans to complete interceptor system $174,000, construct sewage pumping station $144,000, sewage force main $455,400, disposal plant and filtration tanks $1,204,800. G. M. Osborne, city engr.

Mich., Royal Oak—Had plans prepared 6,034 ft. 8 in. vitr. pipe Lateral 24, 10,430 ft. 8 in. Lateral 25, 9,989 ft. 8 and 10 in. Lateral 23, 2,455 ft. 8 and 10 in. Lateral 26, 4,070 ft. 8 in. Lateral 27. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Hinsdale—Plans sewer and sewage disposal system. Randolph-Perkins Co., First Natl. Bank Bldg., Chicago, engrs.

Wis., Algoma—Making plans 8,385 ft. 10- to 33-in. storm and 15,517 ft. 8- to 21-in. sanitary sewers, vitr. clay. Total $70,000, about ¾ of total to be expended this year. H. R. Albert, Courthouse, Green Bay, engr.

Ia., Vail—Plans sanitary sewerage system. $25,000. M. J. Monaghan, clk.

Kan., Independence—Making preliminary plans sewage disposal plant. $100,000. H. Crawford, City Hall, engr.

Tex., Dallas—Making plans 23,000 ft. 5 ft. storm sewer from Henderson and Grand Sts. to White Rock Creek. $150,000. E. A. Kingsley, city engr.

Okla., Newkirk—Election Mar. 24, $35,000 bonds, 1 mi. outfall sewer and disposal plant, 3,000 ft. 18 in. vitr. clay pipe, Imhoff tank and sludge bed. H. E. Musson, Grain Exch. Bldg., Oklahoma City, engr. Noted Feb. 7.

Wash., Centralia—Apr. 14 to vote on $80,000 bonds for sanitary trunk and storm sewers for east and south sides of city. W. L. Lovejoy, city engr.

Calif., Willits—See "Bridges."

Ore., Eugene—See "Excavation, Drainage, Irrigation."

Ore., Verona — Barr & Cunningham, engrs., Spalding Bldg., Portland, prepared plans and takes bids within 90 days sewerage system, here, for city. $95,000.

Calif., Arroyo Grande—Having plans prepared sewerage system and disposal works. To exceed $25,000. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs. Noted Feb. 21.

Calif., Monterey Park (Branch of Los Angeles)—Having plans prepared 1½ mi. storm sewer, Garvey Ave. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, consult. engrs.

Calif., Redondo Beach — Will vote on $25,000 bonds (probably in April), extending sewerage system.

Calif., San Francisco—See "Streets and Roads."

BIDS DESIRED

N. Y., Long Island City—Mar. 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., temporary sanitary sewer in 86th Rd. (William Rd.); sewers in Cooper, Whitlock, Ridgewood and Roanoke Aves., Barclay, Bleeker and West Vine Sts., 113th St. (Cedar Ave.), 114th St. (Stoothoff Ave.).

N. J., Sayreville—Apr. 2, by Boro Council, 2.63 mi. 8 in. and 1 mi. 10 in. vitr. tile sewer, 0.13 mi. 8 in. c.i. outfall sewer, 0.29 mi. 16 in. and 0.28 mi. 10 in. c.i. force mains. W. S. Coulter, 114 Liberty St, New York City, engr.

Pa., Elizabethtown—Apr. 15, by D. L. Landis, secy. Boro Council, sanitary sewerage system and disposal plant; adv. E. N.-R. Mar. 20.

Pa., Erie—Apr. 1, by City Council, intercepting sewer, Project 1. A. N. Aitken, city engr.; adv. E. N.-R. Mar. 20.

Pa, Sharon—Mar. 28, by Sharon Plan of Westinghouse Electric & Mfg. Co., 1,300 lin.ft. 42, 48 and 60 in. pipe in Clark St. Storm Sewer, 1,180 ft. 42 in. pipe in Sharpsville Ave. Storm Sewer, 193 ft. 12 in. V. P. pipe in Clark St. Sanitary Sewer, 720 lin.ft. 8 in. V. P. pipe in Sharpsville Ave. Sanitary Sewer. L. E. Burnside, city engr.

N. C., Black Mountain—See "Streets and Roads."

Ind., LaPorte—Mar. 25, by E. Gildersleeve, constr. comr., constructing Edward W. Kabelin Drain, Center Twp., incl. tunnel and covered drain work. $102,000. Noted Jan. 29.

Wis., Menomonee Falls — See "Waterworks."

Wis., Mukwonago—See "Waterworks."

Wis., West Allis—Mar. 24, by Bd. Pub. Wks., sewers in various streets, 329 ft. of 10 x 12 ft. monolithic concrete sewer, 3,454 ft. 6- to 36-in. vitr. or concrete pipe. W. Darby, City Hall, engr. $25,000.

Mont., Butte — Apr. 2, by city, storm sewers in 10 districts, 3,500 lin.ft. on 8 in., 2,600 ft. 10 in., 300 ft. 12 in. and 1,900 ft. 24 in. concrete pipe. H. J. Weigenstein, city engr.

Mo., Cameron—Mar. 28, by M. Wiley, city clk., 800 lin.ft. 15 in. vitr. outlet sewer, disposal plant, sewage pumping stations and force mains, 10,000 lin.ft. 8 in. vitr. sewer, etc., in Sewer Dist. 8. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Mar. 6.

Mo., Carthage — Mar. 18, by C. A. Haskins, engr., 517 Finance Bldg., Kansas City, sewerage system and disposal plant, here, for city. $110,000. Noted Mar. 6.

Calif., Los Angeles—See "Streets and Roads."

Calif., Pasadena—B. Chamberlain, city clk., receiving bids for rein.-con., plain concrete and segment block sewers for streets from City Farm to Rio Hondo. To exceed $25,000. W. C. Earle, city engr. Noted Dec. 27.

Ont., Chippewa—See "Waterworks."

BIDS RECEIVED

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Rosedale Ave., from Golfin Realty Corp., $46,931; in Dewey and Wilson Aves., from C. W. MacDonald, $63,477 and $123,470 respectively; in Cauldwell Ave., from A. Gregorio & Co., $17,582; in Leland Ave., from Hanratty Contg. Corp., $21,395. Noted Mar. 6.

Md., Baltimore — Bd. Awards, Mar. 12, sanitary sewers in Dist. 24-B and P-8, 47,500 lin.ft. 5- to 24-in. sanitary sewers and house connections, from N. Martell, 417 South Eden St., $169,573. Noted Mar. 6.

Ill., Chicago — Bd. Trustees, Sanitary Dist. of Chicago, 910 South Michigan Ave., Mar. 6, North Side Sewage Treatment Wks., Div. B, 30 thickener mechanisms, from Sanitary Constr. Co., 355 Union Park, $132,000. Div. C, three 60 x 96 in., one hundred and forty-four 15 x 15 in and six 8-in. circular sluice gates, from W. L. D'Olier, $26,094. Div. D, Subdivision A, fifty-four thousand 1½-in. aeration plates, from General Filtration Co., $100,980; Subdivision B, four thousand five hundred 1-in. aeration plates, from Morton Co., $8,145. Div. E, Subdivision A, sewage meters, from Simplex Valve & Meter Co., 30 North Michigan St., (as per specification) $122,095, (with standard meter registers) $119,595; General Electric Co., 230 South Clark St., (with venturi tubes for all meters) $95,126, (venturi tubes for 84-in. meters, flow nozzles for others) $82,366; Builders Iron Fdry., 122 South Michigan Ave., $86,500; Subdivision B, air meters from Republic Flow Meters Co., 2240 Divrsy Parkway, (as per specifications) $30,398, (with standard meter registers) $27,374; General Electric Co., 230 South Clark St., (venturi tubes for all meters) $43,926, (venturi tubes for 84-in. meters, flow nozzles for others) $26,460; Builders Iron Fdry., 122 South Michigan Ave., $28,550. Div. F, fine screens, Alternative A, Type 1, from Link Belt Co., 310 West Pershing Rd., $204,900, Type 2, $208,000, Alternative B from Dorr Co., Inc., 38 South Dearborn St., $112,460; Alternative C, Type 2 from W. L. D'Olier (with ⅛-in. slots as per specification) $1,015,200, (with 3/64-in. slots, alternative) $1,128,000.

Wash., Seattle—Bd. Pub. Wks., Mar. 7, Perry St. sewage disposal works, from Olympic Constr. Co., 400 West Harrison St. Imhoff tank $8,700, contract tank $9,100, sludge bed $2,000, tank house $1,000, etc., total $27,377.

Calif., Los Angeles — See "Streets and Roads."

Calif., Oakland—See Streets and Roads."

CONTRACTS AWARDED

N. Y., Long Island City — M. E. Connolly, pres. Queens Boro, Queens Subway, sewers in Fisk Ave., to Duit Inc., $339,783; Westside and Atlantic Aves., to E. Muccinni, $2,434 and $3,028 respectively; Cuthbert Pl. and Metropolitan Ave., to Green Contg. Co., 734 Vernon Ave., Astoria, $2,461 and $5,389 respectively; Queens and Northern Blvds., to Peace Bros., Inc., 57 North Laurence St., Flushing, $900 and $1,145 respectively; Woodward Ave., to J. J. O'Brien, Jr., William St., Jamaica, $729; 126th St., to P. J. Greenhoff Eng. Co., $1,636. Noted Mar. 13.

N. Y., Stamford—R. S. Welch, village pres., to F. M. Gurney, 2 Irving Pl., Oneonto, sewer in Beaver St. $2,500, new outfall and disposal works $19,400. Noted Feb. 7.

N. C., Greensboro—See "Waterworks."

Miss., Meridian — See "Streets and Roads."

O., Cleveland—Cuyahoga Co., 16,000 ft. 8- to 27-in. vitr. clay and 3,200 ft. 30- to 40-in. segmental block sewer in Impvt. 55 of Co. Sewer Dist., to Langahan Constr. Co., Marshall Bldg., $120,746. Noted Mar. 6.

Wis., Milwaukee—Sewerage Comn., 508 Market St., superstructure 2 story, 220 x 330 ft., filter and drier house, brick and concrete, on Jones Island, to E. Steigerwald & Sons, 2303 Galena St., $208,449. Noted Feb. 28.

Neb., Fremont—Furnishing 38,800 ft. 27 in. concrete sewer pipe and 3,100 lin.ft. 21 in. concrete pipe to Platte Valley Cement Tile Mfg. Co., Fremont, $1.87 and $1.30 per lin.ft. respectively. Noted Feb. 28.

Ark., Pine Bluff—See "Streets & Roads."

Wash., Kelso—Concrete storm and sanitary sewers in West Kelso L. I. D. 55, to J. D. Hanley, Kelso, $52,241.

Sewers (Continued)

Calif., Huntington Park (Branch of Los Angeles)—Vitr. pipe outfall sewerage system, from Los Angeles River in Sante Fe and Florence Aves., 4 mi. long, to J. Chutuk, Wilcox Bldg., Los Angeles, $66,400. Noted May 10.

Calif., Los Angeles—See Streets and Roads.

Waste Disposal

BIDS DESIRED

N. Y., East Chester (Graycourt P. O.)—Apr. 9, by E. A. Mathews, clk. of Town Bd., at his office in Village Hall, Tuckahoe, incinerator plant, chimney and building, on White Plains Rd., here. J. F. Musselman, 101 Park Ave., New York City, consult. engr.; adv. E. N.-R. Mar. 20.

N. Y., Maspeth (independent station Flushing)—Mar. 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Long Island City, repairs to incinerator plant, Flushing and Metropolitan Aves., here.

Ind., Indianapolis—Mar. 25, by Bd. Sanitary Comrs., 21 trailers for use in collection and removal of garbage and ashes. J. L. Elliott, pres.

Ind., Michigan City—Mar. 24, by Comn. of City, at office of E. J. Heise, city clk., garbage rendering plant for Garbage Dept.

Mich., Detroit—Mar. 28, by Dept. Pub. Wks., 12 x 13 x 295 ft. subway and 15 x 96 ft. superstructure for refuse transfer station, Rose and 20th Sts. G. Jerome, city engr.

CONTRACTS AWARDED

Minn., Duluth—Duluth Water & Light Dept., 414 West 1st St., 2 story, 40 x 45 ft., steel, concrete pile foundation, Waterfront at 12th Ave. W., to Nye Odorless Incinerator Co., Georgia Life Bldg., Macon, Ga., $42,500.

Bridges

PROPOSED WORK

Mass., Dalton — Bd. Selectmen plan 2 highway bridges. $165,000-$280,000. E. W. Wiggin, 507 Cutler Bldg., 113 Church St., New Haven, consult. engr.

Mass., Holyoke—Making plans replacing 2 bridges, about 100 ft. long, 60 ft. wide, concrete and steel, Cabot St. $40,000 each. P. E. Bond, City Hall, engr.

N. Y., Buffalo—Plans 1 span 106 ft. steel plate girder bridge, rein.-con. substructure on piles, Stevenson St. To exceed $100,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., Fort Edward—State Hy. Dept., Albany, making plans plate girder bridge over Champlain Canal, two spans, 110 ft. long, 16 ft. roadway, concrete foundation, here. $40,000.

N. Y., Greenfield—Delaware & Hudson Co., foot State St., Albany, plans elimination of grade crossing by diverting highway under railroad tracks which will be carried on 36 ft. span plate girder bridge, 28 ft. between abutments, concrete foundation, 1¼ mi. south of here. $32,000. J. MacMartin, ch. engr.

Pa., Morrisville—Bucks Co. Comn. (Langhorne) plans concrete bridge over Lehigh Canal, here. $25,000. E. H. Harvey, co. comr.

Ky., Burgin—Kentucky Hydro-Electric Co., M. E. Taylor Bldg., Louisville, soon takes bids steel truss highway bridge over Dix River near Dix River Dam (new site). $90,000. G. T. Bogard, c/o owner, engr.

Minn., Austin—Mower Co. rejected bids two 75 ft. concrete arch spans over Cedar River. Plans will be revised and new bids taken by State Hy. Dept., St. Paul. $50,000. Noted Feb. 7.

Mont., Miles City—Custer Co. had plans prepared bridge over Powder River, two 221 ft. spans, steel riveted or pin-connected bridge on concrete abutments. $50,000.

Missouri—State Hy. Dept., Jefferson City, plans one 80 ft. steel truss and six 20 ft. rein.-con. slab spans, 2 rein.-con. piers, etc., over Locust Creek, six 30-ft. rein.-con. deck girder and sixteen 20 ft. rein-con. slab spans, etc., over Muddy Creek, one 80 ft. steel truss and eight 20 rein.-con slab spans, 2 rein-con. piers, etc., over West Yellow Creek, Linn Co. B. H. Piepmeier, state highway engr.

Mo., St. Joseph—City and Chicago Great Western R.R. Co., Grand Central Sta., Chicago, having plans prepared rein.-con. and steel viaduct, wood block surface from 6th St. to Wood Ave. $200,000. W. K. Seltz, city engr. Noted Jan. 25, 1923.

Texas, Pecos—Reeves Co. (Pecos) and Ward Co. (Barstow) soon take bids 125 ft. span bridge with 33 ft. rein.-con. girder span approach at each end, through Warren truss, over main channel, $25,000. S. S. Posey, Pecos, engr.

Okla., Harrah—Oklahoma Co., Oklahoma City, having surveys made 600 ft. 4 span steel bridge, concrete piers, here. $38,000. R. S. James, Court House, Oklahoma City, engr.

Okla., Sayre—Sayre Bridge Co. having surveys made 540 ft. 3 span steel toll bridge, here. $34,000. Engineer not selected.

Wash., Hoquiam—City Council accepted plans (tentatively) for Simpson Ave. Bridge, bascule double-leaf, with 28-ft. roadway and vertical clearance above river of 30 ft. $375,000. F. C. Black, city engr. Noted Dec. 13.

California—See "Streets and Roads."

Calif., Bonsall—Bd. Supervs. San Diego Co., San Diego, having plans prepared bridge, 600 ft. long, foundations sunk to depths of 45 to 65 ft., over San Luis River, near here. $100,000. P. R. Watson, engr.

Calif., Willits—Plans election to vote on $30,000 bonds for bridge, South Main St., and sewers various streets.

BIDS DESIRED

Delaware—See "Streets and Roads."

Ala., Eufaula—Apr. 14, by State Hy. Dept., Montgomery, bridge over Chattahoochee River, here, 190 ft. steel truss span, two 145 ft. steel deck spans, 58 cu.yd. Class A concrete in pedestals, 2,000 lb. reinforcing, removal of wooden bridge. W. S. Keller, state highway engr. Noted Sept. 27.

Louisiana—Mar. 27, by State Hy. Comn., Reymond Bldg., Baton Rouge, 11 bridges ranging from 15 to 131 ft. on Federal Aid Project 113 B, Lafourche Parish, incl., 4 creosoted timber trestle bridges, 5 steel I beam spans, and 2 creosoted timber swing bridges, 80,000 lb. structural steel, 9,000 lin.ft. creosoted piling, 70,000 lin.ft. untreated lumber.

Ill., Aurora—Mar. 24, by Council, constructing Benton St. and Holbrook St. bridges. J. P. Wetz, city clk.

Wisconsin—See "Streets and Roads."

Wis., Reedsburg—Mar. 25, by Sauk Co. Hy. Com., City Hall, here, Reedsburg Bridge, involving 1,326 cu.yd. concrete, 150,230 lb. reinforcing steel, etc. W. Halbersleven, Baraboo, co. comr.

Ia., Primghar—Mar. 25, by O'Brien Co., 22 box culverts, 5 I-beams, 4 concrete abutments, 3 pony trusses and 1 high truss. W. L. Anderson, Primghar, engr.

Minnesota — See "Material and Equipment."

Minn., Mantorville — See "Streets & Roads."

South Dakota—Mar. 27, by State Hy. Dept., Pierre, 1 viaduct on **(F. A. P. 50 B, Sanborn) means Federal Aid Project 50 B, Sanborn Co.**, 172.9 cu.yd. concrete, 18,958 lb. reinforcing and 63,958 lb. structural steel, 5 viaducts on F. A. P. 95 A, Faulk, 457 cu.yd. concrete, 45,658 lb. reinforcing and 183,507 lb. structural steel, one I-beam bridge on F. A. P. 138 B, Meade, 120.3 cu.yd. concrete, 9,265 lb. reinforcing and 28,656 lb. structural steel, 2 viaducts on F. A. P. 145, Beadle, 170.5 cu.yd. concrete, 18,272 lb. reinforcing and 62,802 lb. structural steel, 3 viaducts on F. A. P. 162 B, Haakon, 250.3 cu.yd. concrete, 27,789 lb. reinforcing and 76,264 lb. structural steel, 2 viaducts on F. A. P. 167 A, Bon Homme, 142 cu.yd. concrete, 16,698 lb. reinforcing and 31,814 lb. structural steel, 1 viaduct on F. A. P. 169 Pennington, 46.6 cu.yd. concrete, 4,458 lb. reinforcing and 18,988 lb. structural steel, 1 viaduct on F. A. P. 171 A, Roberts, 132.9 cu.yd. concrete, 12,973 lb. reinforcing and 46,529 lb. structural steel. F. D. Hudgins, ch. engr.

Kan., Iola—April 3, by Clerk Allen Co., 140 ft. concrete arch, ½ mi. from Humbolt, Federal Aid Project 168, Sect. B. A. R. Stroup, co. engr. Noted Mar. 20.

Kan., Kansas City — Apr. 1, by O. K. Williams, engr., Wyandotte Co., constructing superstructure, structural steel and iron work, timber, lighting, approaches and grading, 12th St. $485,000.

Ark., Pine Bluff—Mar. 31, by Plum Bayou Rd. Impvt. Dist. of Jefferson Co., three 40 ft. bridges and one 100 ft. bridge, either Arkansas State standard steel bridges with rein.-con. floor slab, or rein.-con. bridges. G. B. Smith, 104 Pine St., engr.

Tex., Austin—See "Streets and Roads."

Wash., Chehalis—Apr. 7, by Comrs. Lewis Co., 100 ft. steel bridge concrete piers and piling trestle, on Burchard Rd. R. L. Greene, Chehalis, engr.

California — Apr. 7, by State Highway Comn., Sacramento, bridge over Van Dusen River, Humboldt Co., incl. 2,975 cu.yd. concrete, 2,200 cu.yd. structure excav., 3,500 cwts. reinforcing, etc. R. M. Morton, state highway engr.

BIDS RECEIVED

Delaware — State Hy. Dept., Dover, Drawyers Creek Bridge, Contr. 37-B, from G. A. Flink & Co., 222 Market St., Harrisburg, Pa., 36,770. Noted Feb. 21 under "Streets and Roads."

Ohio—See "Streets and Roads."

CONTRACTS AWARDED

Georgia — State Hy. Dept., East Point, bridges over Buds Branch, Turkey Creek and Ocenee River, Laurens Co., to C. E. Strong, Johnson Bldg., Augusta, $8,033; bridge on Moultrie-Camilla Rd., Colquitt Co., to Savage & Ames, Newman, $9,840.

Structural Steel—Louisville, Ky.—Louisville & Nashville R.R. Co., 10th St. and Bway., 6,800 tons structural steel for bridge work in Louisiana, to Amer. Bridge Co., Ambridge, Pa. Est. cost $400,000. Noted Feb. 14.

Wis., Monroe—See "Streets and Roads."

Neb., Wilber—Saline Co., one 100 ft. and two 50 ft. concrete pony truss bridges, one 22 ft. and one 30 ft. I-beam bridges, and one 100 ft. pony truss bridge, to Home Constr. Co., Humboldt, $47,788. Noted Feb. 21.

Missouri — State Hy. Dept., Jefferson City, to Tibbitts & Tibbitts, Olathe, Kan., one 42 ft. rein.-con. deck girder and six 20 ft. rein.-con. slab spans, etc., over Moniteau Creek, Howard Co., $19,076, also one 80 ft. steel truss and six 20 ft. rein.-con. slab spans, 2 rein-con. piers, etc., over Bonne Femme Creek, Howard Co., $21,833. Noted Mar. 6.

Wash., Everett—Snohomish Co., Haller St. Bridge, one 210-ft. and one 105-ft. steel spans, concrete piers, 20-ft. roadway and 5-ft. walks, also Lincoln St. Bridge, 200-ft. steel span, 20-ft. roadway, 5-ft. walk, to J. A. McEachern Co., Colman Bldg., Seattle, $68,500 and $46,500 respectively; Snoqualmie River Bridge, 200-ft. span, 18-ft. roadway, to Amer. Pile Driving Co., Everett, $40,900.

Dams

PROPOSED WORK

Tex., Dallas—Making plans dam and pipe lines with miscellaneous equipment. $2,000,000 bonds sold. E. A Kingsley, city engr. R. A. Thompson and J. C. Nagle, special engineers in charge plans and construction.

Calif., Los Angeles — Los Angeles Co. election May 6, to vote on bonds for flood control district, incl. dam at Tujunga $1,000,000, also dam at Pacoima $1,700,000. J. W. Reagan, co. flood control engr.

Calif., Grass Valley.— See "Excavation, Drainage, Irrigation."

Calif., San Diego—Election May 20, $3,500,000 bonds, additional dams, etc., on citys water impounding system. F. A. Rhodes, city engr.

Calif., San Luis Obispo — See "Waterworks."

CONTRACTS AWARDED

S. C., Lugoff — Southern Power Co., Charlotte, N. C., raising dam at Wateree Hydro-electric plant, near here, 6 ft., dam 1,700 ft. long, 75 ft. high, to E. H. Clements & Co., Commercial Bank Bldg., Charlotte, N. C., $250,000.

Railways

PROPOSED WORK

California—Fresno Traction Co., 1st Ave., Fresno having surveys made extending lines in south western section of city. To exceed $25,000. E. A. Deveraux, supt.

BIDS DESIRED

New York—Mar. 28, by Transit Comn., 49 Lafayette St., installation of tracks for portion of 14th St.-Eastern Line. G. McAneny, chn.

New York—Apr. 15, by R. K. Fuller, comr. Canals & Waterways, Albany, railroad track on Barge Canal terminal at Rochester, Contr. 95; adv. E. N.-R. Mar. 20.

Florida—Mar. 26, by D. M. Lamdin, Wilmington, N. C., ch. engr. Fort Myers-Southern Ry., constructing 23 mi. railroad from Fort Myers to Bonitas Springs, divided 3 parcels, 14 mi., 9 mi. and laying track.

Railways (Continued)

CONTRACTS AWARDED

Nevada—Western Pacific R.R. Co., Mills Bldg., San Francisco, double tracking, incl. widening to grade and laying ties, between Winnemucca and Palisade, to Utah Constr. Co., Phelan Bldg., San Francisco, sublet contract to Morrison & Knudsen Co., 302 Bway., Boise, Idaho.

Excavation, Drainage, Irrigation

PROPOSED WORK

Ia., Onawa—Monona Co. plans drainage work in Lamb D. D. 32. $122,000. C. Moriarty, United Bank Bldg., Sioux City, engr.

Neb., Gothenburg — Gothenburg South Side Irrigation Dist. voted $408,000 bonds for irrigation work. Engineer not selected.

Mo., Keytesville—Porterfield Levee Dist. having plans prepared levees and bank protection for 7,500 acres land in Chariton Co. To exceed $25,000. C. E. Jacoby Eng. Co., Interstate Bldg., Kansas City, engrs.

Ore., Eugene—City and Amazon Slough D. D. takes bids in August draining 900 acres in city and 5,000 acres in district, main drain and viaduct $251,186, sewers $43,700, incidentals $500. Will be submitted to vote at May election. R. H. Thomson, Seaboard Bldg., Seattle, Wash., engr.

Calif., Grass Valley—The Nevada Irrigation Dist., here, and the Pacific Gas & Electric Co., 445 Sutter St., San Francisco, entered into agreement, whereby latter will purchase water stored by irrigation district in proposed Jackson Meadow and Bowman Lake Dams and return water to district for irrigation, about 140,000 acre ft. will be delivered to power company for which district will receive $375,000 per year. Following work is planned: Jackson storage dam, 143 ft. high, incl. 540,000 yd. rock fill, 7,368 yd. concrete, 30,000 ft. roadway, $1,080,000; distribution system, canals and ditches, $1,500,000; pipe lines wood-stave pipe syphons from 18 to 60 in., $214,630; 19,500 metal flumes, $161,790; power houses by Pacific Gas & Electric Co., one at Spalding plant, $2,000,000, enlarging Drum Power Plant, tunnels, etc. Total cost $8,000,000. A. L. Wisker, Grass Valley, mgr. irrigation dist. F. H. Tibbetts and E. Hoar, Alaska Commercial Bldg., San Francisco, consult. engrs.

Calif., Los Angeles—See "Dams."

Calif., Stockton—Pescadero Recl. Dist., c/o F. C. Hermann, consult. engr., Merchants Exch. Bldg., San Francisco, had plans prepared canal, pumping plants, etc. $130,000.

Calif., Vina—Champlin, Peake & Godboldt, Red Bluff, plan to irrigate 1,310 acres, incl. 14,600 lin.ft. canals, 11 ft. wide on top, 5 ft. wide on bottom, 2 ft. deep; one 12 in. and one 10 in. centrifugal pump, near here. $26,500. J. B. Thompson, Chico, consult. engr.

BIDS DESIRED

New York — Apr. 15, by R. K. Fuller, comr. Canals & Waterways, Albany, excavating at various locations, canal channel in Mohawk River from Vischer Ferry to west end of Sect. 2, Contr. 217, from Fonda to Lock 16, Sect. 3, Contr. 218, also from Lock 16 to Herkimer-Oneida Co. line, Sect. 4, Contr. 219; excavating at various locations canal channel in Hudson River, land lines and wood creek from Waterford to Whitehall, Sects. 1 and 2, Contr. 220; adv. E. N.-R. Mar. 20.

N. Y., Rochester — Apr. 15, by R. K. Fuller, comr. Canals & Waterways, Albany, completing excavation of canal channel in Genesee River and placing rock spoil protection along river banks, here, Contr. 214—revised; adv. E. N.-R. Mar. 20. Noted Jan. 24.

N. Y., Tonawanda.— See "Streets and Roads."

Ill., Audubon—Mar. 25, by C. Shingledecker, aud. Audubon Co., Main Ditch 1, 186,000 cu.yd.; Lateral 1, 18,000 cu.yd.; Main No. 2, 200,000 cu.yd.; lateral No. 2, 45,000 cu.yd.; Main No. 3, 140,000 cu.yd.; Lateral No. 3, 11,780 cu.yd.; Main No. 4, 210,000 cu.yd.; Lateral No. 4, 38,111 cu.yd. and Lateral No. 5, 6,220 lin.ft. 15-in. tile in place, for East Nishnabotna D. D. No. 4. $108,500. A. J. Van Sise, Audubon, engr.

Ia., Emmetsburg—Mar. 31, by Palo Alto Co., constructing D. D. 147, Sect. 1, main line 6,100 lin.ft. 20- to 36-in. tile; Sect. 2, 7,900 lin.ft. 8- to 24-in. tile. $25,000. G. R. Campbell, Emmetsburg, engr.

Minn., Minneapolis—May 6, by Bd. Park Comrs., 325 City Hall, dredging in Powderhorn Lake, 15th Ave. S. and 34th St., 140,000 cu.yd. excav. $25,000. J. A. Ridgway, secy. Noted Feb. 28.

Minn., Olivia—Mar. 31, at office of A. O. Schmidt, aud. Renville Co., furnishing, hauling and laying 40,600 ft. 5- to 24-in. tile for Co. Ditch 97. E. L. Chamberlain, Olivia, engr. Noted June 7.

Ark., Newport—Mar. 25, by Browns Creek D. D. 13, constructing 6 mi. main open ditch. $25,000. Bowman Eng. Co., Newport, engrs.

Ark., Pine Bluff—Mar. 27, by Comrs. Consart D. D., c/o F. Bennett, engr., 410 Citizens Bank, main and lateral drainage ditches, levees, etc. $100,000.

Calif., Oroville — Apr. 2, by R. A. Leonard, secy. Thermalito Irrigation Dist., lapweld pipe, 500 ft. 0.272 in. thick, 900 ft. 0.375 in. thick and 800 ft. 0.409 in. thick, 20 in. outside diam., plain ends beveled for welding, coated with pipe dip, also one 18 in. blow off valve to operate under 730 ft. head, f.o.b. Oroville; 24,020 lin.ft. riveted slip joint pipe with tees, bends, wyes, branches, crosses and tapers.

Calif., Terra Bella—Mar. 31, by W. S. McClure, secy. Vandalia Irrigation Dist., furnishing 500 ft. 18 in. well casing and 5 starters; drilling 5 wells, 100 ft. deep or more; furnishing and delivering f.o.b. Sunland, one 125 hp., one 75 hp., one 40 hp. and five 40 hp. vertical motors, also three pumps; furnishing and laying in trench 55,000 ft. riveted steel pipe wrapped with soil proof covering, also furnishing and erecting 2 standpipes; digging and backfilling 55,000 lin.ft. trench for 4- to 26-in. pipe lines.

BIDS RECEIVED

O., Cleveland—For 170,000 yd. dredging in Cuyahoga River, from Great Lakes Dredge & Dock Co., Williamson Bldg., $206,100.

CONTRACTS AWARDED

Minn., Redwood Falls—Redwood Co., Co. Ditch 64, Sect 1, main open ditch, 21,500 lin.ft., 11,601 cu.yd. excav., Sect. 2, 282,821 cu.yd. excav., Sect. 3, 211,183 cu.yd. excav., Sect. 4, 80,535 cu.yd. excav., Sect. 5, 40,655 lin.ft. 6- to 32-in. drain tile, etc.; open work to Strom, Degerness & Hanson, Gary, $76,000; tile material, vitr. glass tile, to What Cheer Clay Products Co., What Cheer, Ia.; other material and all tile labor to Thefry & Hendrickson, Redwood Falls. Noted Feb. 14.

Mo., Kansas City—See "Buildings under Proposed Work."

Calif., Grimes—Recl. Dist. 108, to J. Phillips, 637 Santa Ray Ave., Oakland, constructing canals, incl. 66,400 cu.yd. earthwork Ditch 10-P $0.23, 3,000 cu.yd. Div. 5 $0.20, 2,250 cu.yd. Ditch 9h-2 $0.202, 2,800 cu.yd., Ditch 9-g $0.20.

Calif., Placerville—Eldorado Water Corp., 6 mi. canal from Weber Dam, to Simpson Bros., 25th St. and American River, Sacramento, $0.75 ft.

Streets and Roads

PROPOSED WORK

N. Y., Buffalo—Erie Co. plans concrete paving 80 mi. various roads. G. C. Diehl, 575 Ellicott Sq. Bldg., engr.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., received no bids Mar. 13, grading and regrading, etc., Bway. Noted Mar. 6.

N. Y., Gloversville — Plans curbing, underdrains, storm sewers and paving 4,600 ft. 2nd Ave., East State and Elm Sts., 30 ft., rein.-con. with bituminous top. $62,100. Storm sewers to be built by day labor. H. J. Hanmer, City Hall, engr.

New Jersey—Princeton and West Windsor Twps. plan paving Harrison St. from Princeton Boro line to Brunswick Pike. $60,000. Engineer not selected.

N. J., Newark—Plans paving 3,211 ft. Weequahic Ave., sheet asphalt, $63,381, 4,763 ft. 13th Ave., sheet asphalt and granite block $117,731; grading, curbing, flagging and paving 2,040 ft. South Munn Ave., sheet asphalt, $40,731. J. W. Costello, City Hall.

Pennsylvania—State Hy. Dept., Harrisburg, rejected bids Mar. 6 and 7 for 20 projects involving 58 mi. Readvertised. Noted March 13.

Pa., Hulmerville—Plans to pave Main St. and Trenton Ave. $60,000. J. C. Everitt, chn. Common Council.

Pa., New Castle—Bd. Control takes bids in spring improving ¼ mi. Allen St., 40 ft. $30,000.

N. C., Salisburg—Rowan Co. plans paving 4 mi. road from Mooresville toward here, to county line, asphaltic or concrete. $120,000. A. E. Taplin, High Point, engr.

N. C., Wilson—Plans to pave 24 blocks, probably some asphaltic type. $175,000.

Fla., Clearwater—Pinellas Co. plans improving 5.6 mi. Lakeview Ave., $190,000; 3.6 mi. 4th St., $112,000, 2.85 mi. Tangerine Ave., $118,000, foregoing brick or concrete; 3.05 mi. Maximo St., $102,000, 2 mi. Point Pinellas St., $94,000, brick or asphalt, all 16 ft. wide with granite or concrete curb, in Special Rd. & Bridge Dist. 3. C. E. Burleson, Clearwater, engr.

Fla., Palm Beach—Mar. 31, to vote on $150,000 bonds (⅓ of total cost) widening and paving Ocean Blvd. and Palm Beach Ave.

Fla., Sanford—Plans paving Seminole Blvd., Sanford and Hood Aves., asphalt on rock, or other hard surface, 40 ft. $25,324. F. T. Williams, Sanford, engr.

La., Lake Charles—Plans 60,461 ft. 5 ft. concrete sidewalks on various streets. $65,000. E. L. Gorham, comr.

Kentucky—State Hy. Dept., Frankfort, preparing plans grading 15.43 mi. Bosworth Trail, 24 and 28 ft., State Project 30, Jackson Co. J. S. Boggs, state highway engr.

Ohio—Dept. Highways and Pub. Wks., Columbus, received no bids Mar. 14, grading, bridging and paving 2.214 mi. roads in Columbiana and Washington Counties, also bridge in Washington Co.; and cancelled bids which were to be opened Mar. 14, grading, bridging and paving 6.549 mi. road in Lake Co. Noted Mar. 6.

O., Alliance—Bd. Control takes bids in spring paving ¾ mi. South Linden Ave., 40 ft., $42,000; improving 2.5 mi. South Union Ave., East Ely, West Main and Milton Sts., 40 ft., $135,000. H. Anderson, Alliance, engr. Noted Feb. 14.

O., Bexley (Columbus P. O) — Making plans and takes bids within a month paving 11,700 ft. Bexley Dr., Ardmore and Cassingham Rds., Elm and Roosevelt Aves., about 30,000 sq.yd. brick, asphalt or concrete. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Canton—Stark Co. takes bids in spring concrete curbing and brick paving 4½ mi. South Canton-Massillon Rd., 18 ft. $120,000. A. M. Wise, Court House, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 1,735 ft. Manhattan Ave., 26 ft., brick $36,648, asphalt $31,682; 1,963 ft. Dartmouth Ave., 25 ft., brick $33,281, asphalt $28,388; 422 ft. alley west of Wilson Ave. (Walton Ave.) 21 ft. brick $5,226, concrete $3,852; 4,513 ft. Belmont, Ardmore and Willshire Aves., 24 ft., brick $88,269, asphalt $75,258; 2,006 ft. Wall St., also alleys west of Ohio Adams and Pennsylvania Aves., 20 ft., brick $15,779, concrete $13,980; 1,428 ft. alleys west of Maryin Ave. and Hamlet St., 15 ft., brick $8,592, concrete $7,606; 771 ft. alleys west of Hamlet and 4th Sts., 16 ft., brick $4,907, concrete $4,338. R. H. Simpson, city engr.

Michigan—State Hy. Dept., Lansing, plans grading and surfacing with concrete or bituminous concrete, 175.525 mi. road in 32 counties, also 194.55 mi. gravel road in 12 counties. G. C. Dillman, ch. engr.

Michigan — State Hy. Dept., Lansing, plans grading and surfacing 3.187 mi. State Trunk Line Rd. 27-14, Van Buren Co., 25,181 cu.yd. excav., 37,400 sq.yd. concrete, asphalt or bituminous concrete. G. C. Dillman, ch. engr.

Mich., Detroit—Having plans prepared paving with 3½ in. sheet asphalt on 8 in. concrete, 17,000 sq.yd. Wyoming Ave. $85,280, 4,500 sq.yd. Ohio Ave. $29,640, 3,500 sq.yd. Alter Rd. $19,550, 2,800 sq.yd. Bulwer Ave. $15,710, 4,700 sq.yd. McPherson Ave. $26,600, 5,200 sq.yd. Drexel Ave. $13,475, 2,400 sq.yd. Kendall Ave. $13,475. G. Jerome, city engr.

Mich., Lansing—Plans grading and surfacing with asphalt, concrete or bituminous concrete, Max, Turner, Washington, Saginaw, Mt. Hope, William, Lenawee, Logan, Larned, Garden, Michigan, Leitrim, Sheridan, Shiawassee, Grand, 8th, Barnes and Franklin Sts. O. Eckert, city engr.

Wis., Madison—Having plans prepared paving various streets, 30 ft., one course concrete or asphalt, concrete curbs and gutters. $83,566. E. E. Parker, City Hall, engr. Noted Feb. 21.

Ia., Clinton—Plans paving 13,000 sq.yd. Dist. 3. $41,258. F. W. Leedham clk.

Ia., Sioux City—Plans paving 1 mi. road through Krummanns addition, North of 27th and East of Jackson Sts. $30,000. L. M. Hintgin, city engr.

Minn., Crosby — Plans concrete paving, etc., 0.5 mi. road. $25,000. H. I. Peral, Crosby, engr.

Minn., Jackson—Plans curbing, guttering and paving 20,000 sq.yd. various streets $65,000. W. E. Buell & Co., 305 Davidson Bldg., Sioux City, Ia., engrs.

Minn., Minneapolis—Plans paving 3 mi. Lake of the Isles Blvd., limestone macadam base with tar macadam surface, $75,000;

Streets and Roads (Continued)

1.75 mi. west and south shore drive at Lake Calhoun, tar macadam surface, $30,000. T. Wirth, supt. of parks. Eng. Dept. Bd. Park Comrs., City Hall, engrs.

Minn., St. Peter — Nicollet Co. voted $150,000 for highway between New Ulm and Winthrop. State Hy. Dept., St. Paul, engrs.

Kan., Emporia — Lyon Co. soon takes bids grading and surfacing with bituminous macadam or concrete 2.003 mi. Federal Aid Project 224, Sect. A, 18 ft. W. S. Ruggles, Emporia, engr. Noted Sept. 20.

Kan., Sedan—Chatauqua Co. soon takes bids grading and surfacing with bituminous macadam or concrete 2.495 mi. Federal Aid Project 201, Sect. A, 18 ft. F. L. Appleby, co. engr.

Neb., Papillion — Sarpy Co. plans to gravel roads. $80,000 bonds voted.

Missouri—State Hy. Dept., Jefferson City, rejected bids Feb. 21 grading 3.501 mi. Mansfield-Springfield Rd., 26 ft., Wright Co. Noted Mar. 6.

Mo., Joplin—Plans grading, subgrading and surfacing 14 blocks Florida St., macadam. $32,500.

Mo., Kansas City—Jackson Co. making plans resurfacing 9 mi. road, 18 ft., brick or concrete; resurfacing 4 mi. Kansas City-Independence Rd., 18 ft., brick or concrete. L. Koeler, Kansas City, engr.

Mo., Lathrop—Making surveys paving streets. To exceed $25,000. E. T. Archer & Co., 609 New England Natl. Bank Bldg., Kansas City, engrs.

Mo., St. Louis—Bd. Pub. Serv. soon takes bids grading, concrete curbing, guttering and paving 13,440 sq.yd. Blow, Ohio, Varrelmann and Walsh Sts., warrenite on concrete, $95,800, 6,015 sq.yd. Botanical Ave. and Nashville St., asphalt on concrete, $33,800, 10,555 sq.yd. Devonshire Ave. and Utah St., willite on concrete, $73,550, 2,445 sq.yd. Tholozan St., Kentucky rock asphalt on concrete, $15,250; grading and improving 13 alleys in City Blocks 1383, 1384, 4064, 5138, 5232, 5261, 5299, 5365 and 5543, 14,465 sq.yd. paving, brick on concrete $56,750, plain concrete $36,170. W. W. Horner, city engr.

Mo., Sedalia—Making preliminary plans concrete curbing, guttering and paving 17 blocks Carr Ave. $41,500. C. O. Manker, City Hall, engr.

Mo., Shrewsbury (Maplewood P. O.)—St. Louis Co. (Clayton) voted $45,000 bonds grading and concrete surfacing 18,480 sq.yd. Murdock Ave., here. H. Jablonsky, Court House, Clayton, engr.

Ark., Ashdown — Making preliminary plans grading and gravel surfacing 71 blocks, 24 and 26 ft. $30,000.

Tex., Austin—Travis Co. making plans reconstructing 3 mi. bituminous macadam and constructing 8 mi. crushed stone base with bituminous topping State Highway 20 from city limits to Hays Co. line, 16 ft. base, 15 ft. top, $138,500; resurfacing with gravel and bituminous topping 14 mi. State Highway 29, 16 ft., $96,000. O. Leonard, Box 256, co. engr.

Tex., Caldwell — Burleson Co. election Apr. 22, $400,000 bonds, constructing Highway 36 through county, starting on line of Milam Co. and extending to Washington Co. line. Address County Commissioners Court, Caldwell.

Tex., Cameron—Milam Co. plans election, $150,000 bonds or more, grading, surfacing, etc., 11 mi. Farrier Highway, Rockdale Rd. Dist. A. F. Mitchell, co. engr.

Tex., Cameron—Milam Co. voted $125,000 bonds 6 mi. Farrier Highway from Brazos River to Williamson Co. line and miscellaneous roads, in Thormdale Rd. Dist. A. F. Mitchell, co. engr.

Tex., Carrizo Springs—Dimmit Co. had plans prepared caliche and gravel surfacing 50 mi. Dilley-Eagle Pass Rd., 18 ft. $418,000. J. G. Lott, Carrizo Springs, engr. Noted Jan. 31.

Tex., Columbus — Colorado Co. having preliminary plans prepared improving 6.9 mi. Weimar-San Antonio Rd., 18 ft., 1 in. asphalt on concrete. $215,000. B. H. Faber, co. engr.

Tex., Cuero—De Witt Co. voted $135,000 bonds hard surfacing 20 mi. from Gonzales Co. line to Cuero, 18 ft. S. Kulawik, co. engr. Noted Jan. 31.

Tex., Dallas — Having plans prepared opening new street to connect Good and Lloyd Sts. from Commerce to Elm Sts., to include demolitions and paving 2 blocks, 50 ft. wide, $250,000; extension and paving through Fair Park of Pennsylvania St, to exceed $25,000. E. A. Kingsley, city engr.

Tex., Dallas—E. R. Moss, 4509 Live Oak St., plans paving, etc., new addition on East Grand Ave., 150 acres. $75,000. Engineer not announced.

Tex., Ennis — Making plans permanent paving 5 or more blocks East Ave., brick or miscellaneous types of high grade bituminous. $25,000. H. McCanless, city engr.

Tex., Falfurrias—Brooks Co. voted $250,000 bonds hard surfacing main roads. J. A. Brooks, co. judge. Noted Nov. 22.

Tex., Houston—Harris Co. plans grading, surfacing, etc., 20 mi. La Porte Air Line Rd., from South Houston to La Porte. $200,000. Howe & Wise, co. engrs.

Tex., La Pryor—Zavala Co. election soon, (probably $100,000 bonds), improving road from Frio Co. line through Batesville to La Pryor. N. P. Hunt, co. engr.

Tex., Nixon—Gonzales Co. voted $125,000 bonds hard surfacing 20 mi. road between Wilson and De Witt Counties, through Nixon, Smiley and Sample, 18 ft. J. G. Irby, co. engr.

Tex., Wichita Falls—Wichita Co. election soon $500,000 bonds, grading and surfacing Clara, Sunshine Hill and Archer Rds. in Rd. Dist. 4, J. M. Isbell, co. engr.

Okla., Oilton—Plans grading and paving 5 blocks 2nd and 4th Sts., Dist. 2, 6,800 sq.yd. concrete, 3,600 lin.ft. curbing, 2,400 cu.yd. excav. $31,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City — Plans grading and paving 6 blocks 18th, McKinley and Klein Sts., 6,600 sq.yd. asphalt, 3,800 lin. ft. curbing, etc. $31,000. B. M. Hart, city engr.

Okla., Tulsa — Preparing plans paving Greenwood Ave., various types. $75,000. C. Schultz, city engr.

Idaho—State Highway Dept., Boise, had plans prepared 8.25 mi. Old Oregon Trail from Twin Falls Co. line east toward Burley, Cassia Co., Federal Aid Project 70; 14 mi. from Hansen, Twin Falls Co. east to Cassis Co. line, Federal Aid Project 23-C; 8 mi. between Georgetown and Montpelier, Bear Lake Co., Federal Aid Project 80. $215,000.

Wash., Hoquiam—City Comn. takes bids about Apr. 7, concrete paving and sidewalks on Emerson Ave. et. al. $100,000. W. L. Lovejoy, Hoquiam, engr. Noted Feb. 21.

California—State Highway Comn., Sacramento, plans improving 9½ mi. highway between Janesville and point 4 mi. west of Milford, Lassen Co. County will build necessary bridges. R. M. Morton, state highway engr.

California—State Highway Comn., Sacramento, plans grading and graveling 8 mi. highway north from Independence, Inyo Co. R. M. Morton, state highway engr.

California — Santa Barbara Co. (Santa Barbara), Kern Co., (Bakersfield) and San Luis Obispo Co. (San Luis Obispo) plan grading 40 mi. highway and constructing bridges, etc., along Santa Maria River between Maricopa and Santa Maria, Joint Highway Dist. 3. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs.

Calif., Azusa—Voted $50,000 bonds paving various streets. Noted Jan. 31.

Calif., Claremont—Plans paving various streets, asphaltic concrete. To exceed $25,000.

Calif., Compton—Had plans prepared improving Arbutus and Magnolia St., etc., 730,000 sq.ft. grading, 730,800 sq.ft. 5 in. concrete, etc. E. M. Lynch, Central Bldg., Los Angeles, consult. engr.

Calif., Fullerton — Had plans prepared improving East Wilshire and East Commonwealth Aves., etc., incl. 570,299 sq.ft. 4 in. and 157,795 sq.ft. 5 in. pavement, 9,442 lin.ft. concrete curb. To exceed $150,000. W. C. Redord, city engr.

Calif., Los Angeles—Los Angeles Co. plans paving road through Cahuenga Pass, 8 in. rein.-con. $100,000 will be appropriated each year for 3 years.

Calif., Oakland—Had plans prepared improving portion East Ave., 6,974 sq.ft. grading, 3,580 sq.ft. oil macadam; portion Trumbull Ave., 27,550 sq.ft. grading, 14,171 sq.ft. oil macadam, etc.; portion Galdino St., 9,292 sq.ft. grading, 4,312 sq.ft. oil macadam, 1,859 sq.ft. cement walks, etc. W. W. Harmon, city engr.

Calif., San Diego—Had plans prepared paving Richmond and several streets in University Heights, 675 sq.yd. 3 in. asphaltic concrete, 39,256 sq.yd. 1½ in. asphaltic concrete top on 4 in. concrete, 56,165 sq.yd. 1½ in. bituminous concrete on 2½ in asphaltic concrete, 9,411 lin.ft. cement curbing, 2,217 sq.ft. cement sidewalk. F. A. Rhodes, city engr.

Calif., San Diego—Having new plans prepared improving Girard Ave. and Coast Blvd., incl. 118,601 sq.ft. 5 in. cement concrete, etc. F. A. Rhodes, city engr. Former contract rescinded. Noted Jan. 10.

Calif., San Francisco—Had plans prepared improving Vicente St. between 14th and 19th Aves., incl. 19,592 cu.yd. cut, 8,225 cu.yd. fill, 2,878 lin.ft. concrete curb, 85,392 sq.ft. asphaltic concrete, 3,000 sq.ft. artificial stone sidewalks, $57,000; Judah St. between 31st and 41st Aves., 19,962 cu.yd. cut, 49,804 cu.yd. fill, 5,234 lin.ft. concrete curb, 4,623 sq.ft. artificial stone walks, 148,491 sq.ft. asphaltic concrete, $102,300. M. M. O'Shaughnessy, city engr.

Calif., San Jose—Santa Clara Co. having plans prepared paving portion Hanchett, Yosemite and Sierra Aves., Superv. Dist. 5, 5 in. concrete. To exceed $25,000. R. Chandler, co. surv.

Ont., Guelph — Having plans prepared paving work $45,000, also storm sewers $20,000. N. S. Nicholson, city engr.

Ont., Sandwich—Essex Co. Good Roads Com. having plans prepared and takes bids about May 1, 2 mi. concrete roadway on Front Rd. and 1½ mi. on Division Rd. $200,000. W. B. Clifford, County Bldgs., engrs.

BIDS DESIRED

New Hampshire—Mar. 28, by State Hy. Dept., Concord, paving 2.415 mi. Projects 158 and 175, in Derry, Rockingham Co. Former bids rejected. F. E. Everett, state highway comr. Noted Mar. 6.

New York—Apr. 4, by A. W. Brandt, comr. Highways, Albany, constructing and reconstructing highways in Allegany, Chemung, Clinton, Columbia, Essex, Genesee, Greene, Monroe, Oneida, St. Lawrence, Steuben, Ulster and Yates Counties; adv. E. N.-R. Mar. 20.

N. Y., Brooklyn—Mar. 26, by E. Riegelmann, boro pres., Boro Hall, asphalt paving East 34th and Union Sts., Blake and Hegeman Aves.; grading sidewalk space, curbing and flagging Dahill Rd. and 7th Ave.; grading, curbing and flagging East 37th St.; grading Flatbush Ave.

N. Y., Long Island City—Mar. 25, by M. E. Connolly, pres. Queens Boro. Queens Subway Bldg., curbing and paving, etc., Barclay St., sheet asphalt on concrete; regrading, curbing and laying sidewalks on Beach Channel Dr.; grading, curbing and laying sidewalks on 88th Rd., 89th and Lewis Aves., Buckley and Merritt Sts., 55th (Lewis) Ave., 89th (Ridgewood) Ave.; grading sidewalk space and laying sidewalks where necessary on 87th St. (Benedict Ave.); paving 88th Rd. and 89th Ave. sheet asphalt on concrete, Linden St., bituminous macadam.

N. Y., New York—Mar. 24, by J. Miller, pres. Manhattan Boro, Municipal Bldg., repairing wood block, granite block and oak block pavements in railroad area where and when directed; granite block repaving 1st Ave., etc.

N. Y., Tonawanda—Apr. 15, by R. K. Fuller, comr. Canals & Waterways, Albany, removing old superstructure, making fill and roadway across old Erie Canal bed and rebuilding approaches at Bouck St., here, also improving New York State Canals; adv. E. N.-R. Mar. 20.

N. Y., White Plains—Apr. 7, at office of F. L. Merritt clk. Bd. Supervs. Westchester Co., Court House, improving 0.22 mi. Camp Woods Rd. Co. Rd. 19, in Village of Ossining, and 4.85 mi. Pines Bridge-Whitehall Corners Rd., Co. Rd. 20, in towns of Yorktown and Somers, rein.-con.; adv. E. N.-R. Mar. 20.

N. J., Freehold — Apr. 9, by Bd. Freeholders Monmouth Co., reconstructing 2.531 mi. Sect. 2 Farmingdale-Manasquan Rd. 34, rein.-con. G. D. Cooper, 60 Broad St., Red Bank, civil engr.; adv. E. N.-R. Mar. 20. Noted Mar. 13.

N. J., Newark—Mar. 27, at office of T. L. Raymond, dir. Pub. Wks., grading, curbing, flagging and asphalt paving 42,650 sq.yd. Osborne Terrace, Underwood and Aldine Sts., Patton, Mulford and Clinton Places, Tremont, Nye, Maple, Brookdale, Weequahic and Conklin Aves., $237,044. Noted Mar. 13.

N. J., Oakhurst—Mar. 27, by Ocean Twp., concrete or asphalt paving Sunset, Corlies and Edgemont Aves., etc. J. W. Seaman, 192 Bway., Long Branch, twp. engr.; adv. E. N.-R. Mar. 20.

N. J., Paterson—Apr. 8, by Bd. Pub. Wks., paving several streets, asphalt, bituminous concrete, bitoslag or National pavement. H. J. Harder, city engr.; adv. E. N.R. Mar. 20.

N. J., Princeton—Apr. 7, by Princeton Twp Com., Branch Bldg., paving 8,652 sq. yd. Cedar Grove Rd., bituminous surface macadam pavement. Sincerbeaux & Moore, Mechanics Bldg., Trenton, engrs.

N. J., Salem—Apr. 8, by Rd. Com. of Bd. Freeholders Salem Co., reconstructing Sect. 2 Pennsgrove-Pedricktown Rd., and portion of Sect. 1 Pedricktown-Woodstown Rd. in Oldmans Twp., also Sect. 1 Salem-Hancocks Bridge Rd., in city of Salem and Elsinboro Twp., bituminous macadam. H. B. Keasbey, Salem, co. engr.; adv. E. N.-R. Mar. 20.

Streets and Roads (Continued)

Pennsylvania—Apr. 7, by State Hy. Dept., Harrisburg, constructing 52 mi. roads; adv. E. N.-R. Mar. 20.

Pennsylvania—Apr. 8, by State Hy. Dept., Harrisburg, construction 54 mi. roads; adv. E. N.-R. Mar. 20.

Delaware—Apr. 9, by State Hy. Dept., Dover, constructing 0.265 mi. Marsh Road Underpass, Contr. CN-7 A, 0.632 mi. Hickman and Ridge Rds., Contr. CN-18, 1,925 mi. Summit Bridge-Kirkwood, Constr. SN-19; steel superstructure, Seaford Bridge, Contr. 42-C; adv. E. N.-R. Mar. 20.

Md., Towson—Mar. 27, by Comrs. Baltimore Co., (1) furnishing and applying 145,000 gal. tar or oil; (2) furnishing 117,000 gal. patch material, f.o.b. plant; 58,710 tons stone of different sizes. S. A. Green, rd. engr.

W. Va., St. Albans—Apr. 14, by H. O. Palmer, city clk., grading and paving 10,000 sq.yd. 5th Ave. E. Bruce, 321 Boyd Bldg., Charleston, engr.

N. C., Black Mountain—Mar. 24, by Mayor, paving 6,500 sq.yd. streets and sidewalks, also installing 6,000 lin.ft. sewer pipe. J. F. Foy, Black Mountain, engr.

N. C., Cherryville — Apr. 4, by F. U. Mauney, mayor, improving various streets, 40,000 sq.yd. paving, 5,000 sq.yd. cement walk, 10,000 cu.yd. grading, 27,000 cu.yd. lin.ft. curb and gutter. Bids on various types hard surface. Carolina Eng. Co., Charlotte, engrs.

Fla., Milton—Apr. 8, by Bd. Comrs. Santa Rosa Co., constructing or improving Yellow River-East River and Yellow River State Rd. 1, Sect. Milton-Camp Walton Natl. Forest Rd. within or partly within Choctawhatchee Natl. Forest, 12,086 mi. Sect. A and 4.53 mi. Sect. B, incl. 17,533 cu.yd. common excav., 11,348 mi. road machine grading, 6,235 cu.yd. sand clay 0 to 1 mi. free haul, 3,546 cu.yd. sand slay 1 to 2 mi. haul, 1,859 cu.yd., 2 to 3 mi. haul, 1,636 cu.yd., 3 to 4 mi. haul, 263 cu.yd. 4 to 5 mi. haul, 7,000 cu.yd. clay pit striping. C. H. Overman, co. engr.

Tennessee—Apr. 4, by Dept. Hys. & Pub. Wks., Nashville, grading and surfacing with bituminous macadam on crushed stone, 4.1 mi. Harriman Rd. to Federal Aid Project 85, 18 ft., State Project 161, Roane Co., with bituminous concrete 3.68 mi. Nashville-National Cemetery Rd., 24 ft., Federal Aid Project 206, Davidson Co., with bituminous macadam 8.72 mi. New Market-Knox Co. line Rd., 16 ft., State Project 133, Jefferson Co., with cement concrete 8.32 mi. Blountsville-Bristol Rd., 18 ft., Federal Aid Project 98, Sullivan Co., 3 small bridges on foregoing project, with gravel 10.03 mi. Henderson-McNairy Co. line Rd., 8 ft. surface, State Project 159, Chester Co., incl. corrugated metal pipe structures and timber bridges; grading 5.13 mi. Smithville-White Co. line Rd., 16 ft., State Project 163, DeKalb Co., 8.69 mi. Clinton-Knox Co. line Rd., 26 ft., Federal Aid Project 82, Anderson Co., 3.07 mi. Morristown-Granger Co. line Rd., 16 ft., State Project 160, Hamblen Co.; surfacing with bituminous macadam 3.5 mi. Obey River-Overton Co. line Rd., 16 ft., State Project 162, Pickett Co., with waterbound macadam 5 mi. Tate Springs-Hamblin Co. line Rd., 9 ft., State Project 164, Grainger Co. J. G. Creveling, comr. Noted Feb. 14 and Mar. 6.

Kentucky—Apr. 7, by State Hy. Dept., Frankfort, constructing and surfacing with bank gravel, waterbound macadam or surface treatment, 19.22 mi. Henderson-Madisonville Rd., Federal Aid Project 34, Sect. F, Webster Co., 18 ft. Former contract rescinded. J. S. Boggs, state highway engr. Noted Nov. 22.

O., East Cleveland (Cleveland, P. O.)—Mar. 25, paving Dover and Nela Courts, repaving Lakeview, Shaw and Cort Aves. and 7 ft. strip on Euclid Ave., also resurfacing 4th and 6th Aves., granite block and asphalt. W. M. Garnett, City Hall, engr.

O., Steubenville—Mar. 25, at office Buena Vista Heights Co., Sinclair Bldg., improving 8,937 sq.yd. Buena Vista, Rossiyn and Kingston Blvd., waterbound macadam, for F. S. King and W. C. Brown. O'Hara & Watson, 904 Sinclair Bldg., civil and mining engrs.

Ind., Wabash—Apr. 8, by Comrs. Wabash Co., improving W. D. Hoffman et al. Rd., Chester Twp., $103,379; Thomas Bechtold et al., Rd., Chester Twp., $74,557. W. Beauchamp, aud.

Ind., Winchester—Apr. 4, by Comrs. Randolph Co., improving 14,080 ft. road in Monroe Twp. and town of Farmland incl. grading and paving road bed with cement, etc. $82,100. R. A. Tooker, aud.

Michigan—Apr. 2, by State Hy. Dept. at dist. office Port Huron, shaping and surfacing 2.123 mi. State Trunk Line Rd. 27-4 B, St. Clair Co., 24,908 sq.yd. concrete, asphalt or bituminous concrete, 2.731 mi. State Trunk Line Rd. 27-15, A, St. Clair Co., 32,470 sq.yd. asphalt or concrete, 1.874 mi. State Trunk Line Rd. 27-17, A, St. Clair Co., 22,035 sq.yd. concrete, asphalt or bituminous concrete. G. C. Dillman, ch. engr.

Michigan—Apr. 7, by State Hy. Dept. at dist. office St. Joseph, grading and surfacing 0.747 mi. State Trunk Line Rd. 11-64, Berrien Co., 8,764 sq.yd. concrete, asphalt or bituminous concrete, also 1.25 mi. State Trunk Line Rd. 11-22, B, Berrien Co., 14,850 sq.yd. concrete, asphalt or bituminous concrete. G. C. Dillman, ch. engr.

Mich., Mt. Clemens—Mar. 25, at office Bd. Macomb Co. Rd. Comrs., Mt. Clements, grading and surfacing with concrete or bituminous concrete, 4.028 mi. Assessment Dist. Rd. 70. W. Lehner, engr.

Wisconsin—Mar. 31, by State Hy. Comn., Madison, and Village Bd. of Menomonee Falls at div. office 2, Stephenson Bldg., Milwaukee, grading, surfacing and bridging, etc., Milwaukee-Menomonee Falls Rd., Federal Aid Project 358, 19,935 cu.yd. earth and 2,624 cu.yd. rock excav., 42,365 sq.yd. concrete, etc. A. R. Hirst, Madison, state highway engr.

Wisconsin—Mar. 31, by State Hy. Comn., at div. office 2, Stephenson Bldg., Milwaukee, grading and surfacing, etc., Fond du Lac-Ripon Rd., Project 365, Fond du Lac Co., Sect. A commencing at end of present pavement on Trunk Highway 23 and extending east 5.63 mi. to Seymour St., 16,600 cu.yd. earth and 5,132 cu.yd. loose rock excav., 55,000 sq.yd. concrete, Sect. B commencing at Seymour St. extending to Lincoln Ave. in city Fond du Lac, 3,400 cu.yd. earth excav.; 5,770 sq.yd. concrete, Contractor to furnish 2,150 bbl. cement f.o.b. cars Fond du Lac. A. R. Hirst, state highway engr.

Minn., Duluth—May 1, by W. H. Fischer, city comr., paving East St. from 24th to 44th Aves., 14,445 sq.yd. concrete, 6,523 lin.ft. concrete curb, etc. $62,378. J. Wilson, city engr.

Minn., Duluth—May 1, by W. H. Fischer, comr., concrete or asphalt paving 18,740 sq.yd. 1st St. from 1st to Mesable Aves. $96,211 for concrete and $108,542 for asphalt. J. H. Wilson, city engr.

Minn., Elbow Lake—Apr. 7, by C. M. Nelson, aud. Grant Co., improving 9 mi. State Rd. 9, Job 2401, 58,344 cu.yd. excav., 58,575 cu.yd. overhaul, 695 lin.ft. portable culverts; gravel surfacing State Rd. 1, Job 2404, and 7 mi. State Rd. 2, Job 2405. $30,000.

Minn., Mankato — Apr. 2, by C. L. Kennedy, aud. Blue Earth Co., 5 mi. Job 2401, State Rd. 16, 5 mi. Job 2402, State Rd. 20, 3 mi. Job 2403 and 4 mi. Job 2404, 136,046 cu.yd. excav., 243,720 cu.yd. overhaul. $35,000. J. W. Hruska, Mankato, engr.

Minn., Mantorville—Apr. 4, by G. L. Taylor, aud. Dodge Co., 7.5 mi. Job 2303, State Rd. 1, 85,452 cu.yd. earth excav., 273,965 cu.yd. overhaul, 2,505 lin.ft. 6-in. tile, placing 1,635 lin.ft. sectional concrete culverts; 8 mi. Job 2401, State Rd. 5, 66,500 cu.yd. excav., 77,840 cu.yd. overhaul, 2,010 lin.ft. sectional concrete or corrugated metal culverts, 1 low truss 50-ft. bridge, 128 cu.yd. concrete in monolithic culverts. $40,000. D. P. Poboish, Mantorville, engr.

Minn., St. Paul—Mar. 31, by G. J. Ries, aud. Ramsey Co., improving Upper Afton Rd., 32,014 cu.yd. excav., 64,421 cu.yd. overhaul, 4,589 cu.yd. gravel surface, $23,000; Division St. from north city limits of White Bear village to Park Ave. in town of Bald Eagle, $5,000. P. N. Coates, co. surv.

Kan., Atchinson — Apr. 4, by Clerk Atchinson Co., grading and surfacing with brick or concrete 7.632 mi. Federal Aid Project 83, Sect. A, and 7.522 mi. Sect. B, 18 ft. R. D. Coleman, co. engr.

Kan., Iola—Apr. 3, by Clerk Allen Co., grading and surfacing with 1 course concrete 2.036 mi. Federal Aid Project 168, Sect. A, 18 ft. A. R. Stroup, co. engr.

South Dakota—Mar. 27, by State Hy. Dept., Pierre, grading 144.1 mi. roads in 15 counties. F. D. Hudgins, ch. engr.

Tex., Austin—Mar. 25, by G. S. Mathews, judge Travis Co., grading and bridging 11 mi. Manchaca Rd. to Bear Creek, Fredericksburg Rd. and Post Rd., 24 ft. $30,000. O. Leonard, Box 256, co. engr.

Tex., Brownsville—Cameron Co. taking bids improving 3 mi. road just north of Harlingen, 18 ft., concrete. $100,000. W. O. Washington, co. engr.

Nevada—Mar. 26, by State Highway Comn., Carson City, improving 1.27 mi., Route 2 Sect. D-1, White Pine Co., 4,033 cu.yd. unclassified excav., 4,850 cu.yd. selected material for fills, 8,620 yd. sta. overhaul, preparing 1.27 mi. subgrade and shoulders, 13,430 sq.yd. cement concrete, etc. (cement furnished by state, f.o.b. Ely); 8.03 mi., Route 1 Sect. D, from Derby to Fernley, Washoe and Lyons Counties, 34,750 cu.yd. unclassified excav., 8,173 yd. sta. overhaul, preparing 2.46 mi. subgrade and shoulders, 3,950 cu.yd. loading and screening gravel, 11,160 yd. mi. hauling gravel, 3,950 cu.yd. spreading gravel, etc. (sand and gravel furnished by State). G. W. Borden, state highway engr.

California—Apr. 7, by State Highway Comn., Sacramento, paving 2.8 mi. between Pasadena Ave. and Montebello, Los Angeles Co., cement concrete and asphaltic concrete. R. M. Morton, state highway engr.

Calif., Burbank—City Council receiving bids improving Lincoln St., 6,000 lin.ft. 2½ in. asphaltic concrete base with 1½ in. Natl. surface, grading, etc.; 5th St., 2,400 lin.ft. long, grading and paving with 3 in. rock and oil macadam, etc.

Calif., Los Angeles—Bd. Pub. Wks. receiving bids improving Waverly Ave. between Auburn and Hyperion Sts., incl. 52,816 sq.ft. concrete, sanitary sewer system, 7,879 sq.ft. walks; 20th St. between Oak and Toberman Sts., 20,463 sq.ft. asphalt, 1,420 sq.ft. bituminous base pavement, 3,147 sq.ft. walks; alley west of Pacific Ave. between 17th and 18th Sts., 15,000 sq.ft. concrete; Hoover St. between Santa Monica and Fountain Sts., 50,285 sq.ft. Warrenite-bitulithic, 4,332 sq.ft. walks, 2,309 sq.ft. gutter, etc.; Sentinel Ave. between Ganahl and Wabash Sts., 19,970 sq.ft. oil and roll, 7,227 sq.ft. walks, 2,893 sq.ft. gutter, sanitary sewers, etc.; Oxnard St. between Woodman Ave. and Sherman Way, 108,902 sq.ft. of 6 in. concrete, etc. J. A. Griffin, city engr.

Calif., Los Angeles—Mar. 31, by Supervs. Los Angeles Co., improving Western Ave. near Torrance, 3,600 cu.yd. excav., 10,300 sq.yd. shaping, 10,300 sq.yd. sub-base, 10,300 sq.yd. asphaltic concrete, 10,300 sq. yd. Topeka surface.

Calif., San Francisco—Bd. Pub. Wks. taking bids improving 48th Ave. from Lawton to Santiago Sts., Ortega St. from 48th Ave. to Great Highway. To exceed $25,000. M. M. O'Shaughnessy, city engr. Noted Oct. 18.

Calif., Santa Cruz—Supervs. Santa Cruz Co. taking bids paving 2 mi. San Jose Rd., oil macadam. L. Bowman, co. surv.

Calif., South San Francisco (Branch San Francisco)—City Trustees receiving bids improving various alleys, incl. 238,000 sq. ft. concrete, 32,500 sq.ft. of 4 in. concrete base with 1½ in. Topeka surface, 2,600 sq. ft. concrete walks, 6,300 cu.yd. grading, etc. G. A. Kneese, Courthouse, Redwood City, engr. Noted Mar. 6.

Ont., Kitchener—Mar. 25, by S. Cassel, clk Waterloo Co., Court House, paving 60,400 sq.yd. 7 in. concrete in Woolwich, Waterloo, and Wilmot Twps. and Ayr Village. Prices wanted on all materials.

BIDS RECEIVED

New York—State Hy. Dept., Albany, Mar. 14, constructing and reconstructing 6.24 mi. Repair Contr. 3080, Trenton-Remsen-Boonville Rd., Oneida Co., from Hogeboom, Campbell, Inc., Kingston, $257,427, engrs. est. $288,040; 4.18 mi. Highway 8171, Monticello-Woodbourne, Part 2, Sullivan Co., from Ferber-Gill Co., Inc., Hackensack, N. J., $189,236, $209,232; 4.57 mi. Highway 8170, Putnam-Essex Co. line, Washington Co., from McCambly, Butterfield & Co., Plattsburgh, $145,644, $165,944; 3.1 mi. Repair Contr. 3079, Livingston-Hudson, Part 2, Columbia Co., from J. Walker Constr. Co., 19 Steuben Ave., Albany, $146,808, $153,203; 6.61 mi. Highway 5694, Caledonia-Mt. Morris, Part 2, Livingston Co., from Greenfield Constr. Co., 89 Main St., Hornell, $249,209, $272,803; 2.44 mi. Highway 8167, Deans Corners-Rundall Corners, Putnam Co., from Strong & Steffy, Inc., 522 5th Ave., New York $114,285, $123,721; 3.76 mi. Repair Contr. 3078, Waterford-Mechanicsville, Saratoga Co., from Collins Bros., Mechanicsville, $158,997, $173,749; 6.18 mi. Highway 8168, Panama-Ashville, Chautauqua Co., from M. H. Ripton, Carter Bldg., Rochester, $268,821, $297,731; 9.6 mi. Highways 8169 and 1670, Arcade-Bliss Rd., Parts 1 and 2, Wyoming Co., from J. W. Gurnett, Watkins, $373,457, $418,895. Noted Feb. 28.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Mar. 12, grading, curbing, flagging and paving (1) East 18th St., macadam; sheet asphalt paving (2) Lenox Rd. (3) Lott Ave. (4) Quentin Blvd. (5) Warehouse Ave., etc. (6) West 8th St., est. (7) West 35th St. (8) 10th Ave. (9) 43rd St. (10) 67th St. (11) 77th St (12) 79th St. (13) 81st St., curbing and flagging

Streets and Roads (Continued)

where necessary on **(14)** Lott Ave. **(15)** Quentin Blvd. **(16)** West 12th St. **(17)** 65th St. **(18)** 67th St. **(19)** 73rd St., from 65th St. Contg. Co., Ridge Blvd., **(1)** $5,613 Galecor Contg. Co., Ridge Blvd., **(1)** $5,613 **(16)** $3,717 **(18)** $4,059; Cranford Co., 52 9th St., **(2)** $3,404 **(3)** $3,615 **(4)** $16,077 **(5)** $40,919 **(6)** $91,932 **(8)** $11,652 **(9)** $10,094 **(11)** $8,298 **(12)** $8,607 **(13)** $9,288; M. J. O'Hara Contg. Co., 717 65th St., **(7)** $17,671; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., **(10)** $7,383; Borough Asphalt Co., 1301 Metropolitan Ave., **(3)** $3,615; W. G. Grimm, **(14)** $1,817 **(15)** $2,165; W. E. Carberry, 45 South Elliott Pl., **(17)** $4,403; L. Mangieri, 190 31st St., **(19)** $3,961; Interstate Contg. Co., **(19)** $3,961. Noted Mar. 6.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Mar. 13, grading, curbing, laying sidewalks and crosswalks on **(1)** Randall Ave. **(2)** Worthen St., grading, building inlets and receiving basins in **(3)** Metcalf Ave. **(4)** Fenton Ave., curbing, laying sidewalks and crosswalks on **(5)** Houghton Ave., grading, curbing, laying sidewalks, etc. on **(6)** East 227th St. **(7)** East 171st St. **(8)** West 180th St., sheet asphalt paving **(9)** Grant Ave. **(10)** Webb Ave. **(11)** Steuben Ave. **(12)** Findlay Ave. **(13)** White Plain Ave., bituminous concrete paving **(14)** Elliot Pl. **(15)** Mounteden Ave., granite block paving **(16)** Cauldwell Ave., from Hanratty Contg. Co. **(1)** $20,573 **(3)** $7,461 **(4)** $10,796; P. J. Kane, Jr., 600 East 149th St., **(2)** $13,110; Interstate Contg. Co., Inc., **(5)** $6,876; L. DiMinna **(6)** $33,866; Asphalt Constr. Co., 208 Bway., **(7)** $45,462 **(10)** $24,341; Interboro Asphalt Co., 2306 Creston Ave., **(8)** $44,947 **(9)** $56,976 **(11)** $15,148 **(12)** $14,983 **(14)** $19,943 **(15)** $70,920; J. E. Gaffney, 438 East 91st St. **(13)** $209,606; Astoria Contg. Co., 169 Hunter Ave., Long Island City. **(16)** $25,514. Noted Mar. 6.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, regrading, curbing, recurbing, flagging, reflagging and granite block paving 5th Ave. from 140th to 142nd Sts., from Asphalt Constr. Co., 208 Bway., $45,220. Noted Mar. 6.

Delaware—State Hy. Dept., Dover, constructing roads **(a)** stone concrete pavement corrugated pipe **(b)** stone concrete, rein.-con. pipe **(c)** slag concrete, corrugated pipe **(d)** slag concrete, rein.-con. pipe, 1.903 mi. Walker-Deakynsville Rd., Contr. CN-14, from Sherman & Rhodes, Smyrna, **(a)** $82,970 **(b)** $83,090 **(c)** $81,584 **(d)** $81,704; 2.276 mi. Mt. Pleasant-Summit Bridge Rd., Contr. CN-15, from W. Eisenberg, Camden, N. J., **(a)** $82,738 **(b)** $82,963 **(c)** $81,578 **(d)** $81,803; 1.01 mi. Walnut St.-Milford Rd., Contr. CK-20, from Hannaman-Burroughs, Salisburg, Md., **(a)** $33,747 **(b)** $33,927 **(c)** $33,322 **(d)** $33,502; 4.56 mi. Wescoats Corner-Rehoboth Rd., Contr. CS-30, from Roberts Paving Co., Quantico, Md., **(a)** $165,688 **(b)** $166,268. D. E. O'Connell & Sons, Ridley Park, Pa., **(a)** $179,396 **(b)** $179,576 **(c)** $175,396 **(d)** $175,576; 2.43 mi. Bethel-Broad Creek Rd., Contr. CS-31, from Field, Barker & Underwood, Commercial Trust Bldg., Phila., Pa., **(a)** $73,193 **(b)** $73,493 **(c)** $70,980 **(d)** $71,280, Hannaman-Burroughs Co., Salisburg, Md., **(a)** $72,383 **(b)** $72,783 **(c)** $72,008 **(d)** $72,408; 0.507 mi. road through Frederica, Contr. CK-17, from George & Lynch, Dover, stone concrete $18,232, slag concrete $17,980. Noted Feb. 21.

Md., Baltimore—Bd. Awards, Mar. 12, grading, curbing and paving streets listed in Contr. 250-OANA, 1,400 sq.yd. vitr. brick, 21,150 sq.yd. asphalt, from Amer. Paving Co., Montebello Ave., $91,960. Noted Mar. 6.

Md., Towson—Comrs. Baltimore Co., Mar. 13, concrete paving 1 mi. Group 5, Tufton Ave., 4th Dist., from Harry T. Campbell Sons Co., Inc., Towson, $27,490; macadam paving Group 6, from P. Reddington & Son, 2 East Lexington St., Baltimore, $28,609.

W. Va., Buckhannon—State Rd. Comn., Charleston, and Upshur Co., grading and bituminous paving 6 mi. road, 16 ft., from C. E. Price & Co., Huntington, $255,544. Noted Feb. 28.

Ohio—Dept. Highways and Pub. Wks., Columbus, Mar. 14, grading, bridging and paving with **(a)** Kentucky rock asphalt **(b)** brick **(c)** bituminous concrete on concrete **(d)** bituminous concrete on waterbound **(e)** plain concrete **(f)** waterbound surface treated **(g)** concrete on concrete **(h)** rein.-con. **(i)** bituminous macadam, asphalt **(j)** bituminous macadam, tar **(k)** bituminous concrete **(l)** Topeka mixed asphalt **(m)** asphaltic macadam **(n)** tar macadam **(o)** sheet asphalt **(p)** asphaltic concrete (1) 3.365 mi. Sect. "E-2" Lima-Bellefontaine Rd., Allen Co. **(2)** 2.57 mi. Sect. "D" Barberton-Greenwich Rd., Ashland Co. **(3)** 2.587 mi. Sect. "E" Barberton-Greenwich Rd., Ashland Co. **(4)** 0.971 mi Sect. "New Bremen" Piqua-St. Marys Rd., Auglaize Co. **(5)** 0.971 mi. Sect. "New Bremen" Piqua-St. Marys Rd., Auglaize Co. **(6)** 0.495 mi. Sect. "Owensville" Milford-Hillsboro Rd., Clermont Co. **(7)** 1.17 mi. Sect. "C" Youngstown-East Liverpool Rd., Columbiana Co. **(8)** 2.049 mi. Sect. "A" Akron-Cleveland Rd., Cuyahoga Co. **(9)** 2.68 mi. Sect. "A" Youngstown-East Liverpool Rd., Mahoning Co. **(10)** 3.275 mi. Sect. "A" Marion-Mt. Gilead Rd., Marion Co. **(11)** 2.287 mi. Sect. "B-1" Marion-Mt. Gilead Rd., Marion Co. **(12)** 6.403 mi. Sects. "C, D and E-2" Ft. Recovery-Minster Rd., Mercer Co. **(13)** 1.045 mi. Sect. "Camion" Eaton-Hamilton Rd., Preble Co. **(14)** 2.73 mi. Sect. "D" Eaton-Greenville Rd., Preble Co. **(15)** 1.56 mi. Sect. "C-1" Akron-Massillon Rd., Summit Co **(16)** 1.7 mi. Sect. "J" Cuyahoga Falls-Kent Rd., Summit Co. **(17)** Sect. "A" Akron-Canal Fulton Rd., Summit Co. **(18)** Sects. "E and F" Akron-Wooster Rd., Wayne Co., resurfacing **(19)** 0.402 mi. Sect. "A" Cincinnati-Columbus Rd., Warren Co., **(20)** 1 mi. Sect. "A" Portsmouth-Hillsboro Rd., Scioto Co., concrete curbing **(21)** 1.85 mi. road Ashtabula Co., from W. Sousley Co., Ada, **(a1)** $83,686; E. J. Heil, Lima, **(b1)** $131,085; D. A. Phillips & Son, Ashland, **(c2)** $77,728 **(d2)** $70,283 **(d3)** $72,156 **(g3)** $79,934; Newell & Smith, Defiance, **(e2)** $69,781 **(e3)** $71,886; Standard Paving & Contg. Co., Lakewood, **(f2)** $58,574 **(f3)** $60,331; Churchill Enck Co., Lima, **(h4)** $32,685 **(h5)** $22,836; Craig & Jordan, Blanchester, **(i6)** $10,026 **(n19)** $4,410; A. C. Pickleheimer, 3555 Mooney Highway Park, Cincinnati, **(j6)** $10,258; General Asphalt Paving Co., 1268 Dueber Ave., S. W., Canton, **(k7)** $26,152 **(l7)** $26,152 **(p18)** $144,265; Ohio Constr. Co., Cleveland, **(h8)** $111,095; J. L. McCormick, Ravenna, **(b8)** $141,973 **(21)** $13,060; C. J. Brown & Taylor, Farmdale, **(i9)** $60,083 **(j9)** $59,693; L. L. Clymer, Bluffton, **(i10)** $62,805 **(i11)** $46,702 **(m14)** $73,330; G. W. Purdum, 2634 West Broad St., Columbus, **(j10)** $65,910; N. B. Putnam, Van Wert, **(j11)** $49,995; Hinton & Smalley, Celina, **(h12)** $158,479; Eldorado Paving Co., Eldorado, **(b13)** $40,574; C. Wilmore, Middletown, **(e14)** $80,623; Straw & Huber, Eaton, **(n14)** $74,835; Guilford-Wright Co., Akron, **(b15)** $82,197 **(e15)** $69,234 **(b17)** $19,735 **(h17)** $17,666; T. E. McShaffrey, 171 South Forge St., Akron, **(k15)** $70,242; McCort Constr. Co., Akron, **(o16)** $50,172; Studebaker & Son, Greenville, **(b18)** $163,661; Merkle Bros., Mansfield, **(h18)** $123,219; Brunson & Van Horn, Cincinnati, **(q19)** $4,622; W. C. Brown, Chillicothe, **(i20)** $44,731. Noted Mar. 6.

Wis., Antigo—G. O. Palmiter, city clk., Mar. 11, paving various streets, from Manitowoc Constr. Co., 826 South 8th St., Manitowoc, $141,090 (for concrete); C. T. Welsh Co., 703 1st Natl. Soo Bldg., Minneapolis, $151,562 (for sheet asphalt); F. P. Coughlin Co., 30 North LaSalle St., Chicago, $159,335 (for bitulithic). Noted Feb. 7.

Wis., Monroe — Green Co. grading and concrete surfacing York Church Rd., from J. L. Frame, Blue Mounds, 1,000 cu.yd. earth excav. $0.90, 2,500 cu.yd. fine grading $1.50, 29,400 sq.yd. concrete $1.47, etc., total $58,416. Noted Feb. 28.

Neb., Omaha—Douglas Co., paving 2.49 mi. Omaha-Elkhorn Rd., Federal Aid Project 2C, from Amer. Paving Co., 1325 Grace St., $3.98 for brick on 6 in. concrete, $2.86 on 7 in. concrete; Allied Contractors, 1803 Douglas St., $3.30 for bituminous concrete on 6 in. concrete; A. H. Reed Co., Omaha, $3.95 sheet asphalt.

Ark., Pine Bluff—Paving Dist. 71 incl. 21,000 sq.yd. brick on concrete, 2,100 sq.yd. 6 in. base, 300 ft. each of 18- and 36-in. sewers, 1,120 lin.ft. concrete curb and gutter, etc., from Kaw Paving Co., 616 N. E. Bldg., Topeka, Kan., $54,116. Noted Feb. 21.

Colorado—State Hy. Dept., Denver, Mar. 11, concrete paving 2.339 mi. Federal Aid Project 17-R, El Paso Co., from La Nier-Selandes & White, Ft. Morgan, $81,399; concrete viaduct over Denver & Salt Lake R.R. tracks on Denver Brighton Rd., from A. F. Hewett, 1250 Pearl St., Denver, $11,006. Noted Mar. 6.

California—Improving highway between south boundary Ventura Co. and Camarillo, 13.5 grading, 7.4 mi. cement concrete paving, 2.5 mi. widened with cement concrete shoulders, from S. Hunter, 122 Valero St., Santa Barbara, $319,145. Noted Feb. 21.

Calif., Hawthorne—Improving Raymond Ave. between east and west city limits, 1½ in. Willite on 2½ in. asphaltic concrete over 2 in. sand cushion, curbs, gutters and walks, from Oswald Bros., 366 East 58th St., $46,975. Noted Dec. 20.

Calif., Los Angeles — Los Angeles Co., improving Crescent St. between Burbank city limits and 2,800 ft. south, etc., Co. Rd. Impvt. 63, from G. R. Curtis, 2440 East 26th St., 8,689 cu.yd. excav. $1.35, 23,190 sq.ft. gutters $0.35, 30,779 sq.yd 1½ in. Natl. pavement $1.35, 30,779 sq.yd. 3½ in. asphaltic concrete $1.45, etc., total $106,028. Noted Feb. 7.

Calif., Monterey — Improving portion Laine, Spencer, Archer Sts., etc., 35,000 lin.ft. concrete curb and gutter, 450,000 sq.ft. 5 in. waste quarry rock pavement, 2,500 lin.ft. corrugated iron and culvert, from J. L. Conner, Box 565, Santa Cruz, $81,900. Noted Feb. 14.

Calif., Oakland — Improving Monticello, Birdsall Sts., etc., from Bates & Borland, Bank of Savings Bldg., 84,899 sq.ft. grading $0.075, 3,170 ft. concrete curb $0.69, 6,327 ft. concrete gutter $0.24, 42,172 sq.ft. oil macadam $0.13, 1,420 lin.ft. 6 in. vitr. pipe sewer $1.75, etc. Noted Feb. 28.

Calif., San Diego—Improving A, Ash, Beech, Cedar and 7th Sts., from D. H. Ryan, 1615 Fern St., 176,272 sq.ft. 1½ in. asphalt concrete on 2½ in. bituminous $0.16, 88,382 sq.ft. 4 in. cement concrete $0.165, 1,300 sq.ft. 1½ in. asphalt concrete gutters $0.05, 4,101 sq.ft. cement concrete sidewalk $0.22, 1,522 lin.ft. cement concrete curb $0.65, etc. Noted Jan. 24.

CONTRACTS AWARDED

New Hampshire—State Hy. Comn., Concord, paving highway in Concord, waterbound macadam, etc., to A. D. Bridges Sons Inc., Hazardville, Conn., $33,018. Noted Mar. 13.

N. Y., Buffalo—Dept. Parks & Buildings, City Hall, curbing and paving 7,177 sq.yd. Red Jacket Parkway, to Rock Asphalt Constr. Co., Morgan Bldg., $40,909. Noted Mar. 6.

N. J., Freehold—Monmouth Co. concrete paving 2.15 mi. Palmer Ave., Keansburg, to Jannarone Contg. Co., 225 Passaic Ave., Belleville, $115,217. Noted Mar. 13.

Pennsylvania—State Hy. Dept., Harrisburgh, constructing Route 102, Sect. 2, Tioga Co., and Route 102, Sect. 3, Potter and Tioga Counties, to D. Schoentag, 68 Ulster Ave., Saugerties, N. Y., $408,107 and $318,422 respectively; Route 163, Carbon Co., to Neely Bros., Oxford Ave. and Wakeling St., Phila., $121,299; Application 1775, Clearfield Co., to M. S. McMahon, Brookville, $21,951; Route 231, Adams Co., to Frey Constr. Co., 50 West Phila. St., York, $42,029; Route 174, Susquehanna Co., to R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton, $36,555; Route 120, Westmoreland Co., to J. S. Rinehart, East Liverpool, O., $61,910; Route 116, Fayette Co., to Swaney & Gilmore, R. F. D. 5, Uniontown, $78,123; Route 59, Elk Co., to G. Metzger Jr., 12 4th St., Emporium, $54,787; Route 65, Clearfield Co., to Milliron Constr. Co., 224 Deposit Natl. Bank Bldg., DuBois, $98,897. Noted Mar. 13.

Pa., Southmont—R. G. Wertz, secy. Boro. Council, grading 13,025 sq.yd. and paving 14,723 sq.yd. with one course rein.con., on Shady Lane, Hochstein Rd., Harding and Cox Sts., to James & Nicholson, Johnstown, $54,000. Noted Feb. 28.

Maryland—State Rds. Comn., Baltimore, oiling roads in Dist. 3-A, to Barrett Co., 36th St. and Grays Ferry Ave., Phila, Pa., $75,000; Dists. 1, 2 and 6, to Atlantic Refining Co., Locust Point, Baltimore, $100,000; Dists. 3, 4 and 5, to Lansdell & Earle, 15 Panta Pl., Hackensack, N. J., $125,000. Noted Feb. 28.

Md., Towson—Comrs. Baltimore Co., concrete paving 7,390 sq.yd. Group 2, 3rd Ave. to Hammonds Ferry Rd., to G. Long Constr. Co., 1st Ave. and 12th St., Baltimore, $19,992; 8,000 sq.yd. Group 3, Carroll Rd. to intersection of Sparks Rd., to Huse & Knight, 2800 Montebello Ave., Baltimore, $24,960. Noted Mar. 13.

W. Va., Parkersburg—Paving Washington Ave., 11th, Bird, Jeannette, North Cornmell, Liberty, 6th, Juliana and William Sts., to Ebersbach Constr. Co., Pomery, O., $72,673. Noted Feb. 28.

N. C., Wadesboro—Paving, curbing and guttering various streets, to Ely Constr. Co., Lamar Bldg., Augusta, Ga., $250,000.

Georgia—State Hy. Dept., East Point, improving 5.832 mi. Cleveland-Blairsville Rd., Lumpkin Co., to J. H. Moore, Dahlonega, $47,825; 8.14 mi. Jesup-Brunswich Rd., Wayne and Glenn Counties, and 3.576 Moultrie-Camilla Rd., Colquitt Co., to Caye Andrews Co., Americus, $39,437 and $17,976 respectively.

Fla., Tampa—Improving McBerry St., to W. L. Harwell, Tampa, $7,960; Tampa and 12th Sts. to Cone Bros., Tampa, $35,922. Work involves 17,000 sq.yd. 2½ in.

Streets and Roads (Continued)

asphalt blocks and 13,400 lin.ft. granite curbing.

Alabama—State Hy. Dept., Montgomery, bituminous macadam paving 6 mi. Decatur-Moulton Rd., 20 ft., Moulton Co., to McQuarry Bros., Albany, Ala., $114,592. Noted Mar. 13.

Miss., Meridian—Paving 10 mi. various streets sheet asphalt and Warrenite on concrete, etc., to Dunn Constr. Co., Chamber of Commerce Bldg., Birmingham, Ala. and J. E. Wright Constr. Co., Meridian; curb and gutters, to A. P. Pool & Son, Meridian; sewers, to R. T. Meyers Constr. Co., Meridian.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, 11.33 mi. Federal Aid Project 144, Many-Mansfield Highway, Sabine Parish, to Hankins Bros., Compti, $103,941. Noted Feb. 21.

La., New Orleans—Comn. Council, paving and subsurface work for 1924 program as follows: to Craven & Lang, 1015 Carondelet St., 890 sq.yd. Antonine St., warrenite, $8.97 front ft., 9,790 sq.yd. Baldwin St., cascemco, $14.75, 10,300 sq.yd. Carondelet St., warrenite, $11, 8,310 sq.yd. Carondelet St., warrenite, $10.82, 800 sq.yd. Cadiz St., cascemo, $8.50, 25,100 sq.yd. Canal Blvd., warrenite, $23.38, 900 sq.yd. Calhoun St., warrenite, $10.55, 2,760 sq.yd. Nashville St., warrenite, $13.73; to Globe Constr. Co., Louisiana Bldg., 17,300 sq.yd. South Claiborne Ave., vitr. brick, $26.15, 1,740 sq.yd. South Liberty St., refined trinidad asphalt, $10.88, 8,130 sq.yd. Poplar St., Kentucky rock, $9.54, 7,130 sq.yd. State St., Dr., Kentucky rock, $9.28, 14,770 sq.yd. Willow St., warrenite, $9.83, 26,330 sq.yd. Washington St., vitr. brick, $22.78; to Southern Roads Co., Weiss Bldg., 5,900 sq.yd. Louisiana Ave. Parkway, Uvalde, $11.43. Subsurface drains to A. P. Boh & Co., 417 Baronne St., Antonine St. $3,975, Calhoun St. $2,482, Nashville St. $7,474; to Hampton Reynolds, Maison Blanche Bldg., Baldwin St. $28,738, Washington St. $57,043; to Grasser Contg. Co., Canal Commercial Bank Bldg., Carondelet St. from Philip to Louisiana Sts. $36,819, Carondelet St. from Louisiana to Napoleon Sts. $49,356, Cadiz St. $5,875, Poplar St. $28,965, State St. Dr., $38,638; to Williams Eng. Co., c/o City Engineer, City Hall, Canal Blvd. $102,852; to M. Mitchell & Son, 2646 Banks St., South Claiborne St. $33,-850, South Liberty St. $9,096; to J. O. Chisolm, 200 Saratoga St., Louisiana Ave. Parkway, $29,692; to H. W. Bond & Bros., 1010 Constantinople St., Willow St. $46,475. Noted Feb. 28.

Tenn., Livingston—Overton Co., grading, structures, etc., 24 mi. road from Fentress to Clay Co. lines, to F. H. Crow & Co., 42nd Ave., N., Nashville, and Pitts Bros. Constr. Co., Mt. Pleasant. Est. cost $300,000.

O., Akron—W. F. Peters, dir. Pub. Serv., improving 5,000 sq.yd. Aqueduct St., sheet asphalt, 7 in. base, brick gutter (texaco), also 5,400 sq.yd. Big Falls Ave., sheet asphalt, Trinidad, 7 in. base, brick gutter, asphalt filler 6 in. base, to Columbus Asphalt Paving Co., 304 Buckeye Bldg., $28,-029 and $38,085 respectively; 2,170 sq.yd. Allyn St., brick, asphalt filler, to Hollinger & Davidson, 435 South Bway., $16,995; 5,490 sq.yd. South Arlington St., brick, asphalt filler, 6 in. base, to V. Olson Contg. Co., 501 Herberich Bldg., $30,285; 190 sq.yd. Power St. (Bellewood Ave.), brick, asphalt filler, 6 in. base, to McAlonan Bros., 127 West Buchtel Ave., $10,994. Noted Mar. 6.

O., Akron—W. F. Peters, dir. Pub. Serv., to E. H. Rawle, 1466 Holly Ave., improving 1,375 ft. McKinley Ave., 42.700 sq.ft. 4 in. cement sidewalk $0.23 per sq.ft., 11,500 cu.yd. earth excav. $0.60, 2,400 cu.yd. cinders $1.10, total $25,442, engrs. est. $28,-027. Noted Mar. 6.

O., Akron—W. F. Peters, dir. Pub. Serv., grading and brick paving, etc., 1,920 sq.yd. Wellesley Ave. and 400 sq.yd. Elma St., to McAlonan Bros., 127 West Buchtel Ave., $11,834 and $15,793 respectively; 753 sq.yd. Garden alley and West Center St., to H. Gilbert, 19 North Martha Ave., $5,441. Noted Feb. 21.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving Hosack St., 464 ft. Isabel St., 24 ft., and 2,126 ft. Essex St., 30 ft., all brick, to R. J. Dienst, 480 South 5th St., $53,360, $7,812 and $43,396 respectively; 3,142 ft. Ohio Ave., 30 ft. asphalt to Franklin Asphalt Paving Co., 209 South High St., $50,784; 765 ft. Hamlet St., 17 ft., and 743 ft. alley west of 11th St., 14 ft., both concrete, to Yale Constr. Co., 146 Yale Ave. $6,397 and $4,629 respectively. Noted Mar. 6.

O., Toledo—Dir. Pub. Serv., to H. P. Streicher Co., Inc., 319 Terminal Bldg., paving Ashwood Ave. $18,159, Everett St. $20,662, Idaho St. $9,455, Upton Ave. $20,-561, all asphalt; to Continental Bitumen Co., Toledo, Brighton Ave. $40,129, Cornell Dr. $9,296 both asphalt; to Peters Bros. & Co., 561 Spitzer Bldg., Geneva St., 4 in. brick $42,463; to J. H. Horan, Toledo, Washington St. alley, rein.-con., $2,369; to Launder & Son, Toledo, Noble St. alley, rein.-con. $6,972.

Ind., Winchester—Randolph Co., paving H. G. Kemp Rd., 31,140 sq.yd. concrete, to C. Minnick, New Castle, $66,539. Noted Jan. 17.

Wis., Monroe—Green Co. grading and concrete surfacing Illinois State Line-Monroe Rd., to J. F. Icke, Madison, 16,000 cu.yd. earth excav. $0.70, 45,480 sq.yd. concrete $1.29, etc., total $82,223; Monroe-Argyle Rd., to L. O. Christianson, Cambridge, 11,-000 cu.yd. earth excav. $0.84, 28,600 sq.yd. concrete $1.44, etc., total $80,947; Brodhead-County Line and Brodhead Juda Rds., to J. O. Legreid, Stoughton, 6,200 cu.yd. earth excav. $0.80, 31,800 sq.yd. cement concrete $1.30, etc, total $60,621; New Glarus-Mt. Vernon Rd., to W. A. Liljequist, Freeport, Ill., 4,300 cu.yd. earth excav. $0.70, 13,200 sq.yd. concrete $1.59, etc., total $32,190; Sugar River Bridge, to E. Kelley, Sun Prairie, $19,784. Noted Feb. 28.

Wis., Wisconsin Rapids—Wood Co. improving roads, to Bossert Coal Co., Wisconsin Rapids, Rudolph-Wisconsin Rapids Rd., 2,639 cu.yd. earth excav. $0.90, 6,347 sq.yd. concrete $1.52, etc., total $13,771; Portage Rd., 1,089 cu.yd. excav. $0.75, 4,638 sq.yd. concrete $1.52, etc., total $8,420; 8th St. South Rd., 2,030 cu.yd. earth $0.60, 10,501 sq.yd. concrete $1.47, etc., total $21,-621; Wisconsin Rapids-Sherry Rd., 5,689 cu.yd. earth $0.90, 18,686 sq.yd. concrete $1.91, etc., total $43,863; Port Edwards-City Point Rd., 4,361 cu.yd. earth excav. $0.75, 8,367 sq.yd. concrete $1.49, etc., total $19,032. Noted Feb. 21.

Ia., Indianola—Warren Co. grading, etc., 8.359 mi. primary road, to J. C. Parquette 2347 Capitol, Des Moines, 120,707 cu.yd. excav. $0.2479 per cu.yd., etc. Noted Feb. 28.

Nebraska—State Dept. Pub. Wks., Lincoln, Feb. 26, 27 and 28, **(P. 7B, Clay, means Project 7B, Clay Co.)** graveling P. 7B, Clay, and 7C, Adams, to Allied Contractors, 1803 Douglas St., Omaha, $32,756 and $51,025 respectively; grading P. 48F, Thurston, to G. Condon, 510 Farnam Bldg., Omaha, $21,070; graveling P. 55B, Saline, to Yant Constr. Co., Omaha, $9,866; grading and graveling P. 68B, Red Willow, grading to C. T. Whelan, North Platte, $11,990, gravel to Stevens Bros., St. Paul, Minn., $82,128, guard rail to Mid State Co., Hastings, $13,197; grading P. 70C, Wayne and Cuming, to A. Miller, Sioux City, Ia., $6,945; grading P. 68C, Hitchcock, to C. T. Whelan, North Platte, $2,784; grading P. 153C, Cass, to J. W. McGeer, Lincoln; grading P. 164C, Nuckolls, and P. 164D, Thayer, to J. N. Miller, Sioux City, Ia., $10,084 and $14,588 respectively; grading and graveling P. 79B, Morrill, grading to Adams & Brooks, Mitchell, $13,368, gravel to F. McCarther, Bayard, $12,761; graveling P. 110A, Boyd, to Norfolk Bridge & Constr. Co., Norfolk, $7,683; graveling P. 131A, Perkins, to Bowker & Knutzen, Kearny, $19,361; grading P. 139H, Madison, to Madison Co.; grading P. 139C, Antelope, to Antelope Co.; grading and graveling P. 149A, Cheyenne, grading to H. L. Lucke, Lodgepole, $6,370, gravel to Cheyenne Co., $1,938; grading and graveling P. 169, Adams, grading to L. Tanner, Hastings, $8,328, gravel to Allied Contractors, 1803 Douglas St., Omaha, $15,-507; graveling P. 172, Cuming, to Yant Constr. Co., Omaha, $53,888; graveling P. 174, Buffalo, to R. T. Cumming, Elm Creek, $5,458; graveling P. 186A, Kimball, to Bowker & Knutzen, Kearney, $9,641; grading P. 198A, Box Butte, to Box Butte Co., $22,807; grading and graveling P. 206 Chase, grading to Peterson, Shirley & Gunther, 1411 WOW Bldg., Omaha, $31,-184, gravel to Stevens Bros., St. Paul, Minn., $9,466; grading and graveling P. 213, Dawes, grading to Union Constr. Co., Kearney, $26,311, gravel to Fremont Constr. Co., Fremont, $26,474; bridge on P. 68C, Hitchcock, to Diamond Constr. Co., Grand Island, $6,371; one 22 ft. and one 16 ft. I-beam bridges on P. 164D, Thayer, to Standard Dredging Co., Omaha, $2,517 and $2,183 respectively; bridge on P. 145A, Cheyenne, and P. 198A, Box Butte, to Diamond Eng. Co., Grand Island, $2,010 and $2,646 respectively; bridge on P. 153C, Cass, to Monarch Eng. Co., Falls City, $8,435; bridge and corrugated culverts on P. 216A, Merrick, to Western Bridge Co., 748 Peters Trust Bldg., Omaha, $2,304 and $2,185 respectively; P. 110A, Boyd, to Pittsburgh Des Moines Bridge Co., Tuttle and S. W. 10th Sts., Des Moines, Ia., $15,965. Noted Feb. 14.

Neb., Fairbury—Paving 7th and H Sts., brick on concrete, to Roberts Constr. Co., 404 First Natl. Bank Bldg., Lincoln, $96,000.

Neb., Lincoln—Paving in Districts 49 and 50, to Abel Constr. Co., 315 Terminal Bldg., $27,000.

Neb., Omaha — City Clerk, City Hall, grading, curbing and paving 64,000 sq.yd. various streets, asphaltic concrete, to M. L. Flinn Paving Co., Sioux City, Ia., $2.53 per yd. Noted Feb. 14.

Neb., Omaha—Metropolitan Utilities Co., Omaha, grading for gas holder 150,000 cu. yd. excav., to J. F. Bolen, Omaha, $52,500.

Missouri—State Hy. Dept., Jefferson City, graveling 4.983 mi. road from Unionville north and south, 16 ft., Putnam Co., and 2.09 mi. Paris-Shelbina Rd., Monroe Co., to Kiefner & Geile, Perryville, $20,099 and $20,671 respectively; 3.84 mi. road from Montgomery City north, 16 ft., Montgomery Co., to Teague Holmes & Co., Troy, $29,299, 5 mi. Jefferson City-Fulton Rd., 18 ft., Callaway Co., to Felix Kersting Co., Jefferson City, $22,176, 3.37 mi. Neosho-Anderson Rd., 16 ft., Newton Co., to Kelly & Underwood, Granby, $24,612, 3.314 mi. Paris-Shelbina Rd., 16 ft., Monroe Co., to Farrell & Dubrouillet, Linn, $40,747; concrete paving and graveling 4.185 mi. road from Princeton north and south, Mercer Co., and 4.002 mi. Fairfax-Tarkio Rd., Atchison Co., to C. H. Atchison Paving Co., Watertown, S. D., $44,426 and $39,065 respectively; grading 3.42 mi., 3.798 mi. and 3.864 mi. Kansas City-St. Louis Rd., 34 ft., Howard Co., to Tibbitts & Tibbitts, Olathe, Kan., $27,233, $64,002 and $19,882 respectively, 2.286 mi. Jefferson City-Springfield Rd., 24 ft., Camden Co., to Short & Bramer, Monett, $14,479, 4.295 mi. road from Lancaster north and south, 30 ft., Schuyler Co., to Wilson Constr. Co., Warrensburg, $25,532. Noted Mar. 6.

Ark., Pine Bluff—Paving Dist. 75 incl. 2,736 cu.yd. excav., 12,978 sq.yd. rein.-con. pavement, 7,964 ft. curb and gutter, 2,255 lin.ft. 12 to 36-in. sewer, etc., to H. E. Monk & Co., Pine Bluff, $37,513.

Tex., Wichita Falls—Wichita Co., Seymour Rd., State Highway 30, Job 243-F, Federal Aid Project 432, to L. E. Whitham & Co., Wichita Falls, $223,289. Noted Feb. 21.

Okla., Tulsa — Vibrolithic paving Dist. 537, to Tibbetts & Pleasant, Daniels Bldg., $77,905; concrete paving Dist. 532, to Ward Paving Co., Tulsa, $23,030; concrete paving Dist. 539, to H. L. Cannady Co., Tulsa, $34,842; concrete paving Dists. 521, 522, 523, and 526, to Standard Paving Co., 1742 East 6th St., $46,923, $21,948, $58,687 and $35,553 respectively. Noted Feb. 21.

Colo., Denver—Surfacing roadway and constructing concrete gutters where necessary in North Denver Surfacing and Sidewalk Dist. 6, to H. C. Lallier Constr. & Eng. Co., Hudson, $47,939.

Wash., South Bend—Pacific Co., grading, rocking and trestling 1 mi. Ocean Beach Highway from South Bend south, to Western Dredging Co., Raymond, $31,129. Engrs. est. $31,952.

Wash., Tacoma—Concrete paving Portland Ave. from Bay to Fairbanks Sts., to Albertson, Cornell Bros. & Walsh, South 12th and Pacific Sts., $73,387.

Wash., Yakima — Comrs. Yakima Co., paving 1.8 mi. Selah Rd., 28 ft., 5-in. one-course concrete, to Hardy & Richings, Yakima, $34,978.

Calif., Covina—Improving 1st St. between Puente and Front Sts., to Griffith Co., Railway Bldg., Los Angeles, 8,192 cu.yd. excav., etc. $1, 553,181 sq.ft. asphaltic concrete $0.15, 21,405 lin.ft. concrete curb $0.45, 71,-879 sq.ft. concrete gutter $0.22, 7,806 sq.ft. cement walks $0.19, 3,063 sq.yd. paving crushed rock and mineral oil $0.50, removing 3,594 ft. old curb $0.05, total $120,000. Noted Mar. 13.

Calif., Los Angeles—To Griffith Co., Railway Bldg., improving Griffin Ave., etc., incl. grading $4,595, 81,810 sq.ft. asphalt $0.228, 51,768 sq.ft. concrete $0.22, 3,119 sq.ft. walks $0.21, 5,413 sq.ft. gutters $0.25, total $38,300, portion Wilton Pl., grading $4,484, 110,323 sq.ft. asphalt $0.228, 1,034 sq.ft. bituminous $0.12, 2,441 sq.ft. gutter $0.25, storm drain $1,550; to E. Schelling, Higgins Bldg., portion Vestal Ave., grading $8,500, 17,714 sq.ft. concrete $0.25, 7,947 sq.ft. oil and roll $0.08, 2,714 ft. curb $0.75, 7,142 sq.ft. walks $0.22, 5,248 sq.ft. gutter $0.35, sanitary sewer $3,500; to W. Liddington, 420 East 60th St., Beachwood Dr., grading $3,830, 123,872 sq.ft. concrete $0.229, storm drain $20,000, sewer $8,575. Noted Mar. 13.

Calif., Redding — Improving various streets to Warren Constr. Co., Bacon Bldg., Oakland, incl. 191,000 sq.ft. 2½ in. asphaltic

Streets and Roads (Continued)

concrete with 1½ in. Warrenite-bituminous surface $0.243, 59,400 sq.ft. 3½ in. asphalt concrete with 1½ in. Warrenite-bituminous surface $0.27, etc.

Calif., Richmond—Improving Macdonald, Roosevelt Aves., etc., 12,500 cu.yd. excav., 222,923 sq.ft. 6 in. Richmond standard macadam, etc., to Hutchinson Co., 1706 Bway., Oakland, $72,595. Noted Feb. 21.

Calif., Watts—To Fleming Constr. Co., 105 North Park Ave., paving Hickory St., 5 in. concrete, $16,036; North Wilmington St., 6 in. concrete, $17,583; Rouff St., 6 in. concrete, $37,800. Noted Nov. 22.

Que., Montreal—Will pave with asphalt 3,400 ft. Amherst St., 30 to 36 ft. wide, $50,050, 2,800 ft. Angers St., 30, 36 and 52 ft. wide, $66,420 556 ft. lane between Victoria and McGill College Aves. 18 ft., $52,-880, by day labor. E. Gauthier, asst. city clk.

Industrial Works

PROPOSED WORK

Mass., Cambridge — Radio — General Radio Co. having plans prepared 3 story and basement, 50 x 80 ft., rein.-con. Lockwood, Greene & Co., 24 Federal St., Boston, engrs.

Mass., Monson — Factory — Rubwood Wheel Co. plans 1 story, 60 x 300 ft., brick and steel, plain foundation. $50,000. Engineer and architect not selected.

Conn., Waterbury—Factory—Plume & Atwood Mfg. Co., 470 Bank St., had plans prepared 50 x 150 ft., about 5 story, brick and steel, plain foundation, Bank St. $130,000. Private plans.

N. Y., Buffalo—Factory—Iroquois Door Co., 629 Exchange St., plans 4 buildings, rein.-con., brick and steel, Exchange St. To exceed $40,000.

N. Y., Ogdensburg — Mill — Algonquin Paper Co., plans new 80 x 200 ft., concrete and steel mill. $150,000-$200,000.

N. C., High Point—Mill—Slane Hosiery Co. plans 2 story, 60 x 200 ft., brick; Mangum Ave. $50,000. W. H. Slane, pres.

N. C., Winston—Salem—Freight Depot—Southern R.R., 13th St. and Pennsylvania Ave., Wash., D. C., plans new freight station, here. $150,000. H. W. Hesselbach, c/o Owner, archt.

Tenn., Lenoir City—Sub-Station—East Tennessee Power Co. plans rein.-con. substation. $100,000.

Ky., Ashland—Plant—Carter Co. Clay Co., Kitchen Bldg., plans power plant at proposed brick plant in Mt. Salvage section of city. $40,000.

Ky., Henderson—Plant—City plans new light and power plant. $75,000. L. Hite, Henderson, engr.

O., Cleveland—Plant—Scripps Publish-Co., 4500 Euclid Ave., having plans prepared by Howell & Thomas, 4500 Euclid Ave., 2 story and basement, 53 x 163 ft., brick, steel and concrete addition, Rockwell Ave. $150,000. R. A. Huber, mgr.

O., Cleveland — Warehouse — Standard Sanitary Mfg. Co., 4409 Euclid Ave., plans 1 story, brick and steel, 100,000 sq.ft. floor space, Random Rd. along tracks of New York, Chicago & St. Louis R.R. $200,000. E. B. Goodwin, mgr. Engineer and architect not selected.

Kan., Topeka—Plant—Western Iron & Fdry. Co. plans structural plant. $60,000. Private plans.

Calif., San Bernardino—Bakery—J. W. Willets, c/o H. E. Jones, archt., Katz Bldg., having plans prepared 2 story, 60 x 125 ft., rein.-con., 3rd and D Sts.

Ont., Sudbury—Sawmill—Spanish Mills Co. Ltd., plans sawmill here.

Ky., Louisville — Boiler House — Louisvilel Gas & Electric Co., 311 West Chestnut St., plans addition at Waterside Power station on riverfront. $103,000. F. Strang, c/o owner, engr.

Ky., Louisville — Plant — Von Allmen Sanitary Milk Co., Oak St. and Garvin Pl., having plans prepared by F. Erhart, 409 Norton Bldg., 2 story and basement, 42 x 45 ft., brick and cut stone addition, Oak St. $40,000.

Ky., Louisville — Printery — Standard Printing Co., 218 1st St., plans 4 story addition. $200,000.

Ky., Mt. Savage—Plant—Carter County Clay Co., Kitchen Bldg., Ashland, plans large face brick plant, here. $200,000.

Ky., Paducah—Foundry—Shelton Bros. Fdry. Co. having plans prepared by A. Jamison, Campbell Bldg., 1 story, 60 x 92 ft. addition. $40,000. Noted Dec. 27.

O., Cleveland—Factory—T. Cusack Co., 2120 East 19th St., having plans prepared by Zimmerman, Saxe & Zimmerman, 64 East Van Buren St., Chicago, 1 and 2 story and basement, 40 x 110 ft., brick and steel, Sumner Ave. $50,000.

O., Cleveland — Factory — Pompeian Co., 2400 Payne Ave., having plans prepared by C. W. Hopkinson, Rose Bldg., 5 story and basement, 60 x 80 ft., brick, steel and concrete addition, East 24th St. and Payne Ave. $50,000.

O., Cleveland—Factory—Willard Storage Battery Co., East 131st St. and St. Clair Ave., had plans prepared 1 story, 80 x 135 ft. addition, brick and mill construction. $50,000. P. H. Voth, constr. engr. Private plans.

O., Maple Heights (Cleveland P. O.)—Factory—Silicia Products Co., 4500 Euclid Ave., Cleveland, plans 2 or 3 story and basement, brick and steel, here. $60,000. E. C. Raeder, pres. Private plans.

Ind., Bloomington—Service and Repair—Standard Oil Co. of Indiana, Whiting, plans 2 story, 150 x 200 ft., 501 North Madison Ave, here. $150,000.

Ind., Indianapolis — Auto Service — Bd. Pub. Wks. having plans prepared by F. B. Hunter, 912 State Life Bldg., 70 x 105 ft. and 200 x 200 ft. auto service and repair buildings. $150,000.

Ind., Pendleton—Machine Shop, etc.—Indiana State Reformatory plans new building to house machine shop and woodworking departments. $250,000.

Ill., Sterling—Plant Addition—Peerless Level & Tool Co. plans 1 story and basement, 100 x 127 ft. addition. $45.000. W. Harley, 32 North State St., archt.

Wis., Chippewa Falls — Laundry — St. Joseph Hospital, c/o J. Stroub, dir., Springfield, Ill., having plans prepared by Foeller, Schober & Stephenson, 219 North Adams St., Green Bay, 2 story, 44 x 52 ft., brick and rein.-con., plain foundation, here. $50,000.

Wis., Milwaukee—Barn-Stable—Gridley Dairy Co., 140 8th St., having plans prepared by A. Luedicke, engr., c/o Owner, 2 story, 92 x 125 ft., brick and concrete, plain foundation, Teutonia Ave. $150,000

Wis., Sheboygan — Factory — D. & D. Hanger, Panel & Glue Co., 722 Jefferson Ave., plans to rebuild 2 story and basement, 50 x 90 ft., brick and rein.-con., plain foundation, Water St., recently destroyed by fire. $50,000. Engineer and architect not selected.

Ia., Greenfield—Light Plant—Plans election, $45,000 bonds, enlarging light plant. H. G. Spooner, clk.

Minn., Fergus Falls—Power Plant—Election Apr. 1, $600,000 bonds for power plant and $15,000 for water mains. H. J. Collins, city clk.

Minn., Minneapolis — Factory — Builders Sideboard Co., 115 North east 5th St., soon lets contract 3 story and basement, 75 x 180 ft., rein.-con. and brick, 215 7th St. N. E. $100,000. H. A. Einhorn, pres.

Minn., St. Paul—Factory—Ronning Mchy. Co., 300 Washington Ave. N., Minneapolis, plans brick and concrete, near new Ford Motor Co. plant, here. $75,000. A. C. Ronning, pres. Engineer not announced.

Minn., St. Paul—Factory—White-McGee Corp., 1311 Harmon Pl., Minneapolis, plans brick and concrete, Edsel Ave., near new Ford Plant, here. $50,000. M. Leren, 3400 32nd Ave. S., Minneapolis, secy. Private plans.

Mo., St. Joseph — Plant — Collier-Adams Mfg. Co., 4th and Mitchell Aves., soon lets contract 3 story, brick and concrete factory, also boiler house and lumber storage shed, 4th St. $100,000. E. R. Meier, Lincoln Bldg., archt. Noted Apr. 5.

Calif., Grass Valley—Power Houses—See "Excavation, Drainage, Irrigation.

Calif., Los Angeles—Plant—Ward Baking Co., St. Andrews Pl. and 60th St., had plans prepared by J. M. Cooper, Marsh-Strong Bldg., 1 story, 90 x 160 ft., brick and steel addition to baking plant, 60th St. $42,000.

Calif., San Francisco—Gas Plant—Pacific Gas & Electric Co., 445 Sutter St., plans addition, on 12 acre site.

Calif., Westwood — Veneer Plant — Red River Lumber Co., Monadnock Bldg., San Francisco, plans veneer plant, here. To exceed $250,000.

Calif., Yuba City—Packing Plant, etc.—Earl Fruit Co., 85 2nd St., San Francisco, plans packing plant and distributing warehouse, 800 ft. frontage, here. $80,000. Noted Apr. 12.

Que., Cap Rouge—Mill—St. Regis Pulp & Paper Co., St. Regis, plans mill, here. $5,000,000.

Que., Quebec—Mill—Gulf Pulp & Paper Co., 85 St. Peter St., plans new mill either within city limits or at Sillery, to cost several million dollars.

BIDS DESIRED

Pa., Somerset—Plant—Apr. 15, by H. A. Zimmerman, Hollsopple, pres. Somerset Drug Co., 4 story and basement, 66 x 112 ft., Main St., here. $150,000. E. H. Walker, Somerset, archt. Noted Feb. 28 under "Buildings."

Ky., Covington—Freight Station—Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, receiving bids 2 story, 50 x 225 ft., here. $80,000. W. Courtnay, ch. engr.

Mich., Detroit—Factory—Building Service Bureau, archts., 301 Bway. Market Bldg., taking bids 3 story, 114 x 115 ft. rein.-con. and brick addition to plant, plain foundation, Hamilton Blvd., for Superior Safety Furnace Pipe Co., 6100 Hamilton Blvd. $100,000.

Mich., Detroit—Factory—A. Kahn, archt., 1000 Marquette Bldg., taking bids and opens same about Mar. 22, 4 story, rein.-con. and brick, plain foundation, Grandy Ave., for Mazer Cigar Co., 5041 Grandy Ave. $100,000. Noted Feb. 28.

Ill., Metropolis—See "Waterworks."

Calif., San Francisco — Bakery — C. O. Clausen, archt., Hearst Bldg., receiving bids 2 story and basement, rein.-con., Howard St. and Washington Alley, for Twentieth Century Bakery Co., 1650 Polk St. $55,000. Noted Feb. 14.

Calif., San Francisco—Factory—W. Lowe, archt., Monadnock Bldg., taking bids 2 story, 113 x 149 ft., rein.-con., Howard and 10th Sts. for Fisher-Gaffney Co., 555 Bryant St. $80,000. Noted Feb. 28.

Calif., San Francisco—Laundry—J. J. Foley, archt., 770 5th Ave., taking bids 2 story and basement, 200 x 200 ft., rein.-con., Alabama and 18th Sts., for Independent Laundry, 2798 19th St. $90,000.

BIDS RECEIVED

Ky., Louisville—Garage and Salesroom—Summers-Herman Inc., 905 3rd St., 3 story, 90 x 100 ft., rein.-con. and brick addition, 3rd and Breckenridge Sts., from Natl. Concrete Constr. Co., Board of Trade Bldg., Louisville. Archts. est. $150,000. Noted Mar. 6.

CONTRACTS AWARDED

Mass., Chelsea—Factory—S. Cabot, Inc., 50 x 225 ft., brick, steel and concrete, to M. C. Tuttle Co., 826 Park Sq. Bldg., Boston.

Conn., Hartford—Factory—L. F. Dettenborn Woodworking Co., 337 Sheldon St., 3 story, 44 x 144 ft., brick and timber, to Industrial Constr. Co., 721 Main St. Archts. est. $60,000-$70,000.

Conn., Thompsonville — Factory — Bigelow-Hartford Carpet Co., 4 story, 90 x 305 ft., brick, plain foundation, to L. E. Locke & Sons, Bay State Bldg., Laurence, Mass. Archts. est. $300,000.

N. J., Hightstown—Power House—W. E. H. Dyer, archt. and engr., Land Title Bldg., Phila., 1 and 2 story, 45 x 57 ft., brick and steel, plain foundation, here, to F. G. English, 1610 North Carlisle St., Phila., for Peddie School. Noted Nov. 8.

N. J., Plainfield—Plants—International Motor Corp., two 4 story plant extensions, and 1 story heat treating plant, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York City. Archts. est. $500,000. This corrects report in Mar. 6 issue.

Pa., Darby—Distribution—Supplee Wills Jones Milk Co., 26th and Jefferson Sts., Phila., 2 story and basement, 96 x 144 ft. brick and steel, plain foundation, 9th and Summit Sts., to G. Kessler Constr. Co., 1733 North Marvine St., Phila. Archts. est. $100,000.

Md., Baltimore—Factory—S. A. Ripple & Bro., 1206 Ridgley St. will build 2 story, 33 x 78 x 208 ft., brick, plain foundation, Clare St, by day labor. $42,000. Private plans.

Tenn., Nashville — Plant — Cumberland Presbyterian Publishing Co., Nolensville Road, 3 story, 40 x 100 ft., brick and steel, 8th and McGavock Sts., to J. Moore Constr. Co., Arcade Bldg., $80,000. Noted Jan. 10.

Ky., Covington—Freight Station—Louisville & Nashville R.R. Co., 10th St. and

Industrial Works (Continued)

Bway., Louisville, brick and steel freight station, here, to G. Rommell Co., 956 Logan St., Louisville. Archts. est. $80,000.

Ky., Louisville—Assembly Plant—Ford Motor Co., Detroit, Mich., general contract plant on river front near State Fair Grounds, here, to L. W. Hancock Constr. Co., Louisville Trust Bldg., about $500,000. Noted Jan. 31.

Ky., Louisville—Factory, etc.—Standard Sanitary Mfg. Co., 6th and A Sts., 4 story and basement, 160 x 450 ft. factory and office, to L. W. Hancock Constr. Co., Louisville Trust Bldg., $700,000. Noted Mar. 6.

O., Cincinnati — Plant — Union Gas & Electric Co., 4th and Plum Sts., superstructure for Ft. Miami power plant, to Foundation Co., 120 Liberty St., New York City.

O., Cleveland—Factory—C. E. Lowe Co., Fidelity Mortgage Bldg., 1 story, 50 x 120 ft., brick and steel, East 81st St. near Kinsman Rd., to L. W. Lapp, 2020 Brunswick Rd. Archts. est. $40,000.

Ind., Bloomington — Factory — Showers Bros., 2 story, 150 x 160 ft., to H. K. Ferguson Co., 6521 Euclid Ave., Cleveland, O. Archts. est. $100,000. Noted Jan. 24.

Ind., Evansville—Plant—Imperial Desk Co., 3 story, 75 x 132 ft., to M. J. Hoffman Constr. Co., 402 Furniture Bldg. Archts. est. $50,000.

Ind., Princeton — Mill — Southern Ry., Wash., D. C., 1 story, 80 x 200 ft. planing mill, to W. Toelle, Princeton. Archts. est. $65,000. Noted Jan. 17.

Wis., Granville — Cannery — Granville Canning Co., A. J. Kreutzer, secy., 1 story, 98 x 120 ft., cannery, also boiler house, brick and timber, plain foundation, to Vollmar & Gruenwald, Cedarburg. $60,000.

Wis., Waupun—Factory—Waupun Canning Co., F. T. Clark, pres. and mgr., will build 2 story, 60 x 120 ft., brick, rein.-con. and steel, plain foundation, by day labor. $100,000. Private plans.

Ia., Webster City—Plant—Amer. Cement Plaster Co., Ft. Dodge, cement plant to W. J. Zitterell, Webster City, $65,000.

Calif., Los Angeles—Ice Cream Plant—Lincoln Ice Co., c/o contractors, 1 story, 150 x 175 ft., frame, Albion St., to Hamm & Grant, Inc., Ferguson Bldg., $46,000.

Calif., Los Angeles—Ice Storage—Jefferson Ice Co., 157 East Jefferson St., 5 story, 93 x 98 ft., rein.-con., to Gay Eng. Corp., 2650 Santa Fe Ave. Noted Mar. 6.

Calif. San Francisco — Factory — San Francisco Realty Syndicate, 240 Montgomery St., 1 story and mezzanine, rein.-con., to contain 180,000 sq.ft. floor space, 9th St. near Howard St., to Barrett & Hilp, 918 Harrison St., $45,000. Gruss Air Spring Co., Inc., 865 Post St., lessee.

Calif., San Francisco—Furniture Plant—M. Saroff, 851 Bryant St., 2 story, brick and steel, Howard St. near 13th St., to S. Schell, 180 Jessie St., $42,000.

Calif., San Francisco—Packing Plant, etc.—Frye & Co., 9th and Walker Sts., Seattle, Wash., will build 1 story, 83 x 240 ft. packing plant and 42 x 240 ft. warehouse, Townsend St., between 3rd and 4th Sts., here, by day labor and subcontracts, $50,000 and $20,000 respectively. Noted Jan. 31.

Calif., San Francisco—Printing Plant—Recorder Printing & Publishing Co., 693 Stevenson St., 2 story and basement, brick addition, to C. R. Collypy, 464 California St., $40,000.

Buildings

PROPOSED WORK

Mass., Boston—Club and Home—Durant, Inc., 336 Huntington Ave., had plans prepared by Coolidge & Carlson, 89 State St., 10 story and basement, rein.-con., brick and stone, wood pile foundation, Huntington Ave. $2,000,000.

Mass., Wakefield — Apartment — J. S. Griffiths had sketches made by Hutchins & French, 8 Winter St., Boston, 3 story, 65 x 85 ft., brick, Main and Park Sts. $150,000.

R. I., Warwick—High School—Town had sketches made by Hoppin Field & Pierce, 32 Westminster St., Providence, 19 room fireproof, Apponang Rd. $400,000. Noted Mar. 13.

Conn., Bridgeport—Business—Schnee & Schnee, 1115 Main St., plan 3 story, brick and steel, plain foundation, Broad and Fairfield Sts. E. B Caldwell, Jr., 886 Main St., archt.

Conn., Middletown—Nurses Home—Connecticut State Hospital, had plans prepared by W. P. Crabtree, 272 Main St., New Britain, 3 story and basement, 78 x 41 ft. with two 37 x 78 ft. wings, brick, along Connecticut River. $190,000. R. L. Leak, supt. Noted Oct. 11.

N. Y., Coney Island (Brooklyn P. O.)—Office—Brooklyn Boro Gas Co., Surf Ave., having plans prepared by Bloch & Hess, archts. and engrs., 18 East 41st St., New York, 4 story, brick, steel and stone, plain foundation. 17th St. and Mermaid St. $175,000.

N. Y., Glens Falls—Hotel—Chamber of Commerce plans 125 room, brick and steel, plain foundation. $600,000. Engineer and architect not selected. Hotel to be operated by Amer. Hotels Corp. subsidiary of United Hotels Corp. Local business interests pledged funds.

N. Y., New York—Theatre and Store—A. D. Phelps, c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., having plans prepared brick, steel and stone, plain foundation, Fordham Rd. $500,000.

N. Y., North Tonawanda—Schools—Bd. Educ. having plans prepared by Johnstone & Eggert, 140 Bryant St., 2 story and basement, rein.-con., brick and stone grade school, Payne Ave., $250,000 voted; also plans 3 story and basement, 150 x 200 ft. high school, $400,000 voted for project, engineer and architect not selected. Noted Sept. 20 and Jan. 17.

N. Y., Tonawanda — High School — Bd. Educ. plans 3 story and basement, 250 x 275 ft., rein.-con., brick and stone. $600,000. Engineer and architect not selected.

N. Y., White Plains—City Hall—Having plans prepared by J. H. Freedlander, 681 5th Ave., New York City, brick, steel and stone, plain foundation. $500,000. Noted Dec. 6.

N. J., Newark—Warehouse and Service—L. Bamberger & Co., Market St., soon lets contract 5 story, rein.-con., concrete pile foundation, Plain St. $1,000,000. Abbott, Merkt & Co., Inc., 175 5th Ave., New York City, archts. and engrs. This corrects report in Feb. 28th issue.

N. J., Nutley—Bank—First Natl. Bank having plans prepared by Holmes & Winslow, archts. and engrs., 134 East 44th St., New York City, brick, steel and stone, plain foundation. $150,000.

Pa., Conshohocken — Temple — Masonic Lodge 420 soon lets contract 3 story and basement, 42 x 100 ft. brick and steel, plain foundation, here. $150,000. W. Chryst, 1145 South Willow St., Phila., archt.

Pa., Johnstown — Lodge — Johnstown Shriners Assn. plans 3 story and basement, 100 x 200 ft. concrete, brick and stone, Valley Pike and Linton St. $300,000.

Pa., Phila.—Apartment—Nineteen Hundred Rittenhouse Sq. Corp., c/o Sugarman, Hess & Berger, archts., 16 East 43rd St., New York City, having revised plans prepared and soon takes new bids, apartment, 19th and Rittenhouse Sts. $600,000. Noted Feb. 28.

Pa., Phila.—Schools—City having plans prepared senior high school at 59th and Oxford Sts., also junior high school at 53rd and Media Sts. Private plans.

Md., Takoma Park (Wash., D. C. P. O.)—Club and Recreation — American Red Cross, 17th, D and E, N. W., Wash., D. C., plans club and recreation building at Walter Reid Hospital, here. $150,000.

D. C., Wash.—Bank and Office—Federal Amer. Natl. Bank, 1315 F St. N. W., having revised plans prepared by A. C. Bassom, 680 5th Ave., New York City, and J. H. DeSibour, associated archt., Edmonds Bldg., constructing bank building, 14th and G Sts. N. W., $800,000. Weinberg & Weishoff, 345 Madison Ave., New York City, engrs. Noted Nov. 22.

D. C., Wash. — Church — Church of Blessed Sacrament having plans prepared by Maginis & Walsh, archts., 100 Boylston St., Boston, Mass., and Murphy & Olmstead, associated archts., 1413 H St. N. W., constructing church, Western Ave. and Quesada Sts., $200,000.

D. C., Wash.—Museum and Art Gallery—Regent on Smithsonian Institute, 10th and B Sts., having plans prepared by C. A. Platt, 101 Park Ave., New York City, museum and art gallery on the Mall, between 8th and 9th St. N. W. $6,000,000.

W. Va., Wheeling — Office — Fourteenth Street Building Co. having plans prepared by C. W. Bates, 77 12th St., 10 story and basement, 14th St. $300,000.

N. C., Greensboro—Hotel—J. T. Morehead (owner) and C. C. Hartmann, archt., Greensboro, soon take bids 14 story, 106 x 121 ft., steel, concrete and brick, Greene St. $700,000. Noted Mar. 6.

Fla., Palm Beach—Hotel—D. S. Linderman, Miramar Inn, Miami, had plans prepared by H. La Pointe, Miami, for Hotel Ostend, here, 5 story, rein.-con. and steel, $250,000.

La., New Orleans—Theatre—A. Pantages, Pantages Theatre Bldg., Los Angeles, Calif., had plans prepared theatre here, $1,000,000. M. Gilbert, engr. and B. Patekia, archt., c/o owner.

La., Shreveport — Y. M. C. A. — C. B. Minor, chn. building com., had plans prepared by C. W. King, Shreveport, now Y. M. C. A., McNeil and Travis Sts. $500,000.

Ky., Louisville — Administration — Kentucky Jockey Club, Churchill Downs, having plans prepared by D. X. Murphy & Bro., Louisville Trust Bldg., administration building. $150,000.

Ky., Louisville—Office—Starks Realty Co., Starks Bldg., having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, 16 story, Walnut St. near 4th St. $1,000,000 to $1,500,000.

Ky., Paducah—Lodge—Benevolent Protective Order of Elks having plans prepared by Joseph & Joseph, Francis Bldg., Louisville, 3 story and basement. $200,000.

O., Cleveland — Apartment — Ninetieth-Euclid Co., c/o W. S. Ferguson Co., archts., 1900 Euclid Ave., having plans prepared 4 story and basement, brick, steel and concrete, Euclid Ave. near 90th St. $250,000.

O., Cleveland—Commercial and Apartment—Euclid Villa Co., c/o E. H. Krueger, Fidelity Mortgage Bldg., having plans prepared by J. F. Steffens, 601 Fidelity Mortgage Bldg., 4 story and basement, brick and steel joist addition, 6801 Euclid Ave. $200,000.

O., Cleveland — Commercial — Syndicate, c/o J. Laronge, Union Trust Bldg., plans 2 or 3 story, brick and steel, on 68 x 280 ft. lot., East 71st St. and Euclid Ave. $250,000. Engineers and architects names withheld.

O., Cleveland — Seminary — St. Marys Seminary Co., c/o J. Schrembs, bishop, 1007 Superior Ave., having preliminary plans prepared by F. C. Warner, Hippodrome Annex Bldg., 2 or 3 story, and basement, brick, steel and concrete, Ansel Rd. $750,000.

O., Cleveland — Store and Office — Superior-9th Co., c/o L. Abrams, Engineers Bldg., having plans prepared by J. F. Steffins, Fidelity Mortgage Bldg., 4 story (ultimately 6 story), brick, steel and concrete, on 132 x 296 ft. site, East 9th St. and Superior Ave. $500,000.

O., Lakewood—Commercial and Apartment—Owego-Detroit Co., c/o J. G. Russell, pres., Ulmer Bldg., Cleveland, plans 3 story and basement, brick, Detroit and Owego Aves., here. $150,000. Private plans.

O., Lisbon — Court House and Jail — Columbiana Co. election Apr. 27, $150,000 bonds, court house and jail.

O., Warren—Bank and Office—Union Savings & Trust Co., plans bank and office, Market and Park Sts.

Ind., French Lick—Garage—French Lick Hotel plans 2 story, 85 x 250 ft., rein.-con. and brick, College St. $150,000.

Ind., Indianapolis—College—Bd. Trustees Butler College, Irvington, plans college buildings, Fairview Park. $1,000,000. R. F. Daggett, Consolidated Bldg., archt.

Ind., Kokomo — Storage — Armstrong-Langdon Co., plans 6 story, 66 x 130 ft. $150,000.

Ind., Indianapolis—Office—Reserve Loan Life, 429 North Pennsylvania Ave., having preliminary plans prepared and soon takes bids 4 story and basement, 68 x 195 ft., rein.-con., brick and stone, Pennsylvania Ave. $350,000. Private plans. Noted Nov. 29.

Mich., Detroit—Hotel—C. D. Lundblad, archt., 206 New Telegraph Bldg., preparing plans 4 story and basement, 35 x 220 ft. brick and steel, plain foundation, $250,000. Owner's name withheld.

Mich., Detroit—School—St. Marks Parish, c/o V. J. Waier, archt., 403 Hoffman Bldg., having plans prepared 3 story and basement, 124 x 151 ft. rein.-con., brick and steel, plain foundation, Lenox and Avondale Aves. $200,000.

Wis., Chippewa Falls—Auditorium—City election Apr. 1, $150,000 bonds, brick memorial auditorium. E. J. Hancock, Lacock Bldg., Eau Claire, archt.

Wis., Dodgeville — Hospital — Lutheran Hospital Assn., c/o C. O. Hanson, chn., Hollandale, plans 2 story and basement, brick, rein.-con. and steel, plain foundation, here. $150,000. Engineer and architect not selected.

Wis., Janesville—Hotel—E. W. Sparling, 494 Cass St., Milwaukee, having preliminary plans prepared by Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago,

Buildings (Continued)

6 story and basement, 100 x 110 ft., brick and concrete, plain foundation, West Milwaukee St., here. $400,000-$500,000. Noted Feb. 7.

Wis., Madison—Church—Methodist Episcopal Congregation, J. M. Walters, pastor, Wisconsin and Dayton Sts., plans remodeling and constructing 3 story addition, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Wis., Oostburg—Factory—Oostburg Canning Co. having plans prepared by E. A. Stubenrauch, 629 North 8th St., Sheboygan, 2 story, 44 x 50 ft., rein.-con. and brick, plain foundation.

Wis., Sheboygan—Office and Store—H. C. Prange Co., 731 North 8th St., having plans prepared by W. C. Weeks, 720 Ontario Ave., 2 story and basement, 85 x 110 ft., brick, rein.-con. and steel, plain foundation, Wisconsin St. $150,000.

Minn., Brainerd — High School — Bd. Educ plans 2 story and basement, 140 x 175 ft., steel, concrete pile foundation. $325,000. L. Holman, clk. Engineer and architect not selected.

Minn., St. Paul—Schools—Bd. Educ. having plans prepared by F. X. Tewes, city archt., City Hall, 2 story school at Freemont and East 3rd Sts., $200,000; 2 story, Fulton and James Sts., $180,000, both rein.-con. and brick. L. R. S. Ferguson, comr.

Kan., Parsons—High School—Bd. Educ. having plans prepared by T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, 3 story and basement, rein.-con. and brick. Election soon to vote on $500,000 bonds. Noted Jan. 17.

Mo., Kansas City — High School — Bd. Educ. having plans prepared by C. A. Smith, Finance Bldg., Central Jr. High School, 3 story and basement, rein.-con., brick and stone, $900,000. Contract for excavation let to Quinlan Bros., 1204 Armstrong Ave., $22,500.

Mo., Kansas City — School — Bd. Educ. having plans prepared by C. A. Smith, Finance Bldg., 3 story and basement, 30 x 106 ft., rein.-con. and rubble stone. $300,000.

Mo., St. Louis—Hotel—Natl. Realty Co., 312 North 8th St., having preliminary plans prepared by P. J. Bradshaw, International Life Bldg., 15 story and basement, 69 x 128 ft., rein.-con., brick, stone and terra cotta, 8th St.

Ark., Hot Springs—Office—Rector Estate, J. A. Rector, Federal Reserve Bldg., St. Louis, Mo., having plans prepared by Le Beaum & Klein, Compton Bldg., St. Louis, Mo., 4 story rein.-con. fireproof, opposite Arlington Hotel, here. $250,000.

Ark., Little Rock—Office—Pulaski County Medical Society, c/o A. C. Shipp, Donaghey Bldg., plans fireproof office. $250,000. Engineer and architect not selected.

Tex., Brownfield—Court House—Terry Co., D. J. Broughton, judge, plans new court house. $150,000 or more. Engineer and architect not selected.

Tex., Dallas—Hotel—R. F. Easterwood, 716 Lowell St., plans 5 or 6 story and basement, 60 x 150 ft., Browder and Wood Sts. $250,000. Dearing & Sons, general contractors, Sumpter Bldg., interested. Engineer and architect not announced.

Tex., Ft. Worth—Hospital—All Saints Hospital, I. A. Withers, pres., Magnolia and 8th Sts., making plans brick and concrete addition. $150,000. Engineer and architect not announced.

Tex., Ft. Worth—Store—J. I. Burgess, Jarvis Heights, plans 6 story and basement, 100 x 100 ft., brick and concrete, 5th and Houston Sts. $300,000. Engineer and architect not announced. Sanger Bros., lessee.

Tex., Ft. Worth—Store—Fakes Furniture Co., 5th and Houston Sts., making plans concrete and brick, 6th and Throckmorton Sts. $150,000. Engineer and architect not announced.

Tex., Ft. Worth — Theatre — Pantages Theatre, Pantages Bldg., Los Angeles, Calif., had plans prepared by B. Patekia, Pantages Bldg., Los Angeles, Calif., theatre, here. $1,000,000. M. Gilbert, Pantages Bldg., Los Angeles, Calif., engr.

Tex., Houston — Club — Knights of Columbus, 820 Crawford St., having revised plans prepared by M. Sullivan, 2nd Natl. Bank Bldg., 3 story and basement, brick and concrete, Crawford St. $150,000. Noted Dec. 6.

Tex., Houston—Schools—Election Apr. 3, $3,000,000 bonds for schools. Noted Feb. 21.

Tex., San Antonio—Home—Knights of Pythias having plans prepared by Seutter & Simons, Moore Bldg., 2 story, 200 x 260 ft., rein.-con. and tile, brick or stucco facing, plain foundation, Houston, Bowie, Elm and Starr Sts. $200,000. Noted Mar. 6.

Okla., Guthrie—High School—Bd. Educ. soon takes bids 3 story and basement, T shape, main building 94 x 184 ft., rein.-con., brick and stone, plain foundation. $300,000. Hawk & Parr, Cotton Exch. Bldg., Oklahoma City, engrs. Noted Dec. 27.

Okla., Tulsa—Schools—Voted $2,000,000 bonds for 2 new schools and additions. Engineer and architect not selected.

Okla., Tulsa — Theatre — Pantages Theatre, Pantages Bldg., Los Angeles, Calif., having palns prepared by B. Paterka, c/o owner, theatre, here. $1,000,000. M. Gilbert, c/o owner, engr.

Wash., Seattle — Hall — University of Washington having plans prepared by Bebb & Gould, Hoge Bldg., 2 story, rein.-con. and brick, known as Anderson Hall. $250,000.

Ore., Eugene—Lodge, Office and Store—Eugene Elks Lodge plans lodge. $150,000. O. A. Faust, Eugene, exalted ruler. Engineer and architect not selected.

Ore., Portland—Crematorium—Lawrence & Holford, archts., Chamber of Commerce Bldg., take bids in about 60 days 1-3 and 4 story, 50-100 x 800 ft. with 50 x 50 x 50 ft. tower, brick and marble addition, plain foundation, East 14th St., Duke and Bylee Aves., for Portland Crematorium Assn. $1,300,000.

Calif., Culver City—City Hall, Firehouse and Police Station—City plans to vote on $150,000 bonds for city hall, firehouse and police station.

Calif., Culver City—Orphanage—Jewish Orphanage Society, c/o Norton & Wallis, archts., 716 South Spring St., Los Angeles, having preliminary plans prepared, group of 1 and 2 story buildings, masonry, here. $200,000 or more.

Calif., Huntington Park (Branch of Los Angeles)—Schools—Huntington Park High School Dist. voted $750,000 bonds for schools.

Calif., Inglewood — School — Inglewood High School Dist. voted $200,000 bonds for 20 room addition to school. Noted Mar. 6.

Calif., Long Beach—School—Long Beach City School Dist. having plans prepared by H. L. Gogerty, 239 East Bway., Long Beach, and Norenberg & Johnson, Railway Bldg., Los Angeles, 2 story, brick elementary school, Edison School site. $185,000.

Calif., Los Angeles—Apartment—Walker & Eisen, archts., Pacific Finance Bldg., preparing plans 5 story and basement, 100 x 175 ft. brick, Franklin Ave. Owner's name withheld.

Calif., Los Angeles—Loft—S. Goodman, c/o Walkerd & Eisen, archts., Pacific Finance Bldg., having plans prepared 12 story and basement, 50 x 100 ft., rein.-con., 7th and Los Angeles Sts.

Calif., Los Angeles—School—City had plans prepared by F. J. Catton, 953 South Park View Ave., concrete school, to contain 12 classrooms, etc., Beverly Vista site. $200,000.

Calif., Los Angeles—Theatre and Store—West Coast Theatres, Knickerbocker Bldg., plans fireproof, Pasadena St. and Ave. 56. $150,000.

Calif., Los Angeles—Warehouse—McFie Supply Co., 213 North Los Angeles St., plans two 1 story warehouses, each to contain 50,000 sq.ft., in vicinity of Alameda and Slauson Sts. Engineer and architect not selected.

Calif., Oakland—Automobile Stage Depot—California Transit Co., 366 14th St., having plans prepared by Miller & Pflueger, Lick Bldg., San Francisco, automobile stage depot, San Pablo Ave. near 22nd St. $150,000.

Calif., Oakland — Labor Temple and Garage—Central Labor Council, c/o W. J. Wilkinson, archt., Amer. Bank Bldg., having plans prepared, 5 story rein.-con. labor temple, basement will be equipped for garage, Franklin and 11th Sts. $250,000.

Calif., San Francisco — Apartment — J. and D. De Martini, c/o E. E. Young, archt., 2002 California St., having plans prepared 6 story and basement, brick and steel, California St. near Jones St. $150,000.

Calif., Santa Ana—Schools—Santa Ana Grammar School Dist. voted $150,000 bonds for school; Santa Ana High School Dist. defeated $100,000 bonds. Noted Mar. 13.

Calif., Santa Monica—Schools—Trustees Santa Monica Junior High School Dist. soon take bids brick and frame, incl. domestic science quarters, gymnasium, cafeteria building, etc. To exceed $150,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts. Noted Mar. 13.

Calif., Sausalito—Apartment Hotel—C. Mason, 358 Litho St., having plans prepared by R. S. Chew, Rialto Bldg., San Francisco, 6 story and basement, rein.-con. or brick, Buckley Ave. $265,000.

Ont., Ottawa—Office—Metropolitan Life Insurance Co., 23rd St., New York City, plans 6 story and basement, 120 x 200 ft., Sparks St., here. $700,000. Architect not selected.

Que., Montreal—Theatre—M. A. Lawland, Bernard Ave., plans 3 story, 100 x 100 ft. rein.-con. $150,000.

BIDS DESIRED

R. I., Providence—School—Mar. 24, at office of City Clerk, City Hall, brick and steel, Reservoir and Woodmount Sts. $150,000. Private plans.

N. Y., Brooklyn—School—Apr. 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., P. S. 216, Ave. X from East 1st to West Sts., for Bd. Educ., 500 Park Ave., New York. Noted Feb. 21.

N. Y., Buffalo—School—Apr. 9, by Bd. Educ., 1400 Telephone Bldg., altering and building 2 story and basement, rein.-con., brick and stone addition to P. S. 63, Cordova Ave. To exceed $200,000. Associated Buffalo Architects, 232 Delaware Ave., archts.

N. J., North Plainfield (Watchung P. O.)—High School—Mar. 28 (extended date), by Bd. Educ., 2 story and basement, 136 x 178 ft., brick, steel and limestone, Greenbrook Rd. $300,000. J. T. Simpson, 31 Clinton St., Newark, archt. Noted Feb. 21.

Pa., Jenkinstown—Bank—Mar. 26, by H. Trumbauer, archt., Land Title Bldg., Phila., 2 story and basement, 57 x 151 ft. brick and steel, plain foundation, for Jenkintown Bank & Trust Co. $500,000.

Pa., Mt. Carmel—School and Convent—Mar. 24, by P. A. Monahan, archt., 1713 Sansom St., Phila., 2½ story and basement, 62 x 150 ft. brick, steel and stone, plain foundation, for Our Mother of Consolation Church. $150,000. Noted Mar. 6.

Pa., Pittsburgh—Office—E. B. Lee, archt., Chamber of Commerce Bldg., taking bids 6 story and basement, 45 x 68 ft. brick and hollow tile, Natalie St., for Physicians Land Co., $175,000.

W. Va., Charleston — High School — Charleston School Dist. taking bids and opens same about Apr. 2, 2 story and basement, Garvin St. $250,000.

Tenn., Memphis—Jail—Apr. 1, by Shelby Co., 5 story, Washington St. Former bids rejected. Jones & Furbringer, Porter Bldg., archts. Noted Feb. 7.

Ky., Greenville—High School—Mar. 28, by Bd. Trustees, 3 story and basement, 60 x 150 ft., brick. Former bids rejected. $150,000. Joseph & Joseph, Francis Bldg., Louisville, archts. Noted Feb. 28.

Ky., Lebanon—Church—Apr. 5, by Nevin, Wischmeyer & Morgan, archt., Starks Bldg., Louisville, stone church with 3 story wing, for United Presbyterian Church. $150,000. Noted Mar. 13.

O., Cleveland—Apartment—W. Epstein, 9203 Yale Ave., taking bids 3 story, 66 x 126 ft., brick, 1416 West 80 Pl. $150,000. M. Weis, 617 Union Bldg., archt.

O., Cleveland—Church—Bohnard & Parsson, archts., 1900 Euclid Ave., taking bids and opens same about Mar. 22, 1 story and basement, brick, West 85th St. and Sauer Ave., for St. Lukes Evangelical Lutheran Church, c/o H. C. Sauer, pastor, 2128 West 85th St. $150,000.

O., Cleveland — Commercial — Dresser-Minton Co., The Arcade, taking bids 3 story and basement, 64 x 75 ft., brick, West 26th St. and Detroit Ave., for International Union of Wood, Wire & Metal Lathers. $150,000. Noted Feb. 7.

O., Columbus—Hospital—Mar. 31, by C. S. Steen, secy. Bd. Trustees Ohio State University, constructing hospital, 4 story and basement, about 120 x 150 ft., rein.-con. and brick, on campus. J. N. Bradford, Ohio State University, archt.

O., Toledo — School — Mar. 26, by Bd. Educ., 3 story and basement, 160 x 165 ft., brick, stone or terra cotta trim, plain foundation, Nevada St. $350,000. E. M. Gee, c/o Bd. Educ., archt.

Ind., Indianapolis—Club House—Rubush & Hunter, archts., 428 Amer. Central Life Bldg., taking bids 12 story and basement, 74 x 131 x 139 x 220 ft., Monument Circle, for Columbia Club, T. A. Wynne, pres. $1,000,000. Noted Jan. 24.

Wis., Kimberly—High School—Mar. 27, by School Dist. 3, 2 story and basement, 70 x 145 ft., brick and tile, plain foundation, 1st unit. $150,000. M. Kettenhofer, dir. Oppenhamer & Obel, Nicollet Bldg., Green Bay, archts. Noted Mar. 13.

Minn., Hopkins—School—Mar. 31, by Bd. Educ., 2 story and basement, rein.-con., brick and tile. $175,000. A. H. Miller, clk. Jacobson & Jacobson, 350 Northwestern Natl. Life Bldg., Minneapolis, archts. Noted May 3.

Kan., Emporia—High School—Apr. 1 (change of date), by J. H. Felt & Co.,

Buildings (Continued)

archts., 800 Grand Ave. Temple, Kansas City, Mo., junior high school, rein.-con., brick and stone, for Bd. Educ., here. Noted Mar. 13.

Neb., Beatrice—School—Apr. 9, by Bd. Educ., 2 and 3 story, brick, concrete and stone. $400,000. J. H. Felt & Co., 800 Grand Ave. Temple, Kansas City, Mo., archt.

Tex., Dallas—Home—Mar. 25, by J. W. Westbrook, 407½ South Bishop St., 2 story and basement, 40 x 210 ft., stone and concrete, Dallas-Ft. Worth Pike, for Young Memorial Home. A T. Wilson, 318 South Brighton St. $300,000.

Tex., Marshall—School—Apr. 3, by E. B. Hayes, 3 story and basement, 94 x 190 ft., concrete, brick and stone, for Marshall Independent School Dist. $200,000. W. G. Clarkson & Co., First Natl. Bank, Ft. Worth, archts.

Calif., Beverly Hills — School — Mar. 26, by Trustees Beverly Hills School Dist., concrete and brick. $150,000. F. J. Catton, 933 South Park View Ave., Los Angeles, archt.

Calif., Huntington Park (Branch of Los Angeles) — School — Trustees Huntington Park Union High School Dist., receiving bids and open same about Mar. 26, 2 story, 180 x 268 ft., brick, arts building. Rea & Garstang, Trust & Savings Bldg., Los Angeles, archts.

Calif., Long Beach—Bank and Office—Security Trust & Savings Bank, 502 South Spring St., receiving bids 13 story, 75 x 150 ft., brick and steel, 1st and Pine Sts. $1,000,000. Curlett & Beelman, Union Bank Bldg., Los Angeles, archts. Noted Feb. 14.

Calif., Los Angeles—Apartment—T. C. Kistner Co., archts., Spreckels Bldg., San Diego, taking bids 4 story and basement, 45 x 125 ft., brick and steel, Bonnie Brae St., here, for A. Chase, c/o architects. Noted Jan. 31.

Calif., Los Angeles—Club—Allison & Allison, archts., Hibernian Bldg., receiving bids 7 story and basement, 150 x 155 ft., rein.-con., Flower St., for Womens Athletic Club, Junior Orpheum Bldg. To exceed $300,000. Noted May 3.

Calif., Los Angeles — Hall — Mar. 31 (change of date), by Bd. Supervs. Los Angeles Co., general contract, Hall of Justice, rein.-con., brick and tile, Temple St. Noted Mar. 6.

Calif., Oakland—Store and Hotel—L. H. Ford, archt., 306 14th St., taking bids 6 story and basement, brick and steel, 15th and Harrison Sts., for Coit Hotel Co., c/o architect. To exceed $250,000.

Calif., Pasadena—Church—G. A. Howard, Jr., archt., 820 Story Bldg., Los Angeles, taking bids hollow tile church, main auditorium will seat between 500 and 600, Sunday School 300 to 400, Claremont St. and Hudson Ave., here, for Second Church of Christ Scientist, North Lake Ave. and Washington St.

Calif., Paso Robles—Apr. 3, by Trustees Paso Robles Union High School Dist. 2 story, masonry and frame. $200,000. O. A. Clark, 518 Charles C. Chapman Bldg., Los Angelesh, archt. Noted Sept. 13.

Calif., San Rafael — High School — San Rafael High School Dist. taking bids 1 story rein.-con., incl. auditorium. $200,000. Shea & Shea, Chronicle Bldg., San Francisco, archts. Noted Aug. 30.

BIDS RECEIVED

N. Y., Solvay (Syracuse P. O.)—High School—Bd. Educ., Junior High School, general contract from Shane Constr. Co., Herald Bldg., Syracuse, $331,000; heating and ventilating, from J. R. Sheehan Co., 16 South Center St., Schenectady, $66,900. Noted Sept. 6.

O., Findlay—High Schools—Bd. Educ., Mar. 14, North Junior High School, 2 story and basement, and South Junior High School, 2 story and basement, fireproof construction, from Orr & Miller, 510 Savings Bldg., Lima, $128,771 and $140,761 respectively. Noted Mar. 6.

O., Toledo—School—Bd. Educ., Mar. 7, 3 story and basement, rein.-con. and brick, Toronto Ave., from J. H. Berkebile & Sons, Bway., $324,619. Noted Feb. 28.

Mich., Detroit—Morgue—W. H. Green, secy. Wayne Co., County Bldg., 2 story and basement, 85 x 136 ft. rein.-con., brick and steel, plain foundation, Lafayette Ave., from Culbertson & Kelly, 827 West Milwaukee St., $332,607. Noted Feb. 21.

Mich., Northville—School—Bd. Supervs. Wayne Co., (Detroit) Mar. 10, from W. E. Wood, 1805 Ford Bldg., Detroit, hospital $105,219, service building $76,324, school $67,398, administration $58,116, girls' industrial building $27,089, boys' industrial building $44,259, laundry $20,583, dormitories $853,856; from F. H. Goddard, 2130 Franklin St., Detroit, assembly building $93,330 power plant $110,678. Noted Feb. 28.

Minn., Minneapolis—School—Bd. Educ., Mar. 10, superstructure for 1 story and basement, 150 x 300 ft., rein.-con., brick and tile, Mississippi River Blvd., general contract from S. M. Klarquist Sons Co., 745 Security Bldg., $135,887. Noted Feb. 28.

CONTRACTS AWARDED

Mass., Boston — Office — Liability Assurance Co., c/o Coolidge & Shattuck, archts., 122 Ames Bldg., 13 story and basement, 106 x 117 x 123 ft., rein.-con., steel and terra cotta, wood pile foundation, Kilby St., to G. N. Harvey Co., 115 Chauncy St., $2,500,000.

Mass., Webster — School — St. Josephs Church, T. M. O'Leary, pastor, 2 story and basement, 107 x 145 ft., brick and steel, plain foundation, Whitcomb St., to T. J. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport, Conn. Archts. est. $250,000.

Mass., Worcester—Hospital—Hahneman Hospital, Inc., 3 story and basement, 45 x 140 ft. with 38 x 59 ell, brick, to James Miles & Sons Co., Worcester, $300,000.

R. I., Providence—Church—Our Lady of Lourdes Roman Catholic Church, 1 story and basement, 60 x 128 ft., brick and stone, plain foundation, 70-ft. tower, Atwells Ave. and Mongenais St., to Mahoney & Tucker, 72 Weybosset St Archts. est. $150,000. Noted Feb. 28.

R. I., Providence — Office — Providence Gas Co., Turks Head Bldg., 5 story, 60 x 129 ft., brick, steel and stone, Weybosset St., to Aberthaw Constr. Co., 27 School St., Boston, Mass. Archts. est. $200,000. Noted Feb. 7.

N. Y., Albany—Garage—Albany Garage Co., 10 story, rein.-con., Beaver St., to J. J. Finn & Son, 75 Northern Blvd., $750,000.

N. Y., Albany—Hotel—Lussier Hotel Co., New York City, 16 story, 80 x 100 ft., brick and steel, plain foundation, South Pearl and Howard Sts., to H. L. Stephens Co., Binghamton. Archts. est. $2,500,000.

N. Y., Brooklyn — Apartment — Penn Realty Co., Inc., c/o Kieswetter & Hamburger, archts. and engrs., 186 Remsen St., will build 6 story, brick, steel and stone, plain foundation, Park Ave., by day labor. $500,000.

N. Y., Brooklyn — Apartments — Rubby Constr. Co., c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build two 4 story, brick, steel and stone, plain foundations, Ocean Ave., by day labor. $250,000 each.

N. Y., Brooklyn—Schools—Bd. Educ., 500 Park Ave., New York, to Hayson Constr. Co., Arverne, P. S. 214, Pitkin Ave., here, $781,000, A deduct $18,000, also P. S. 212, Bay 49th St., here, $807,000, deduct $23,000; to George Colon & Co., 81 East 125th St., New York, P. S. 180, 16th Ave. and 56th St., here, $962,000, deduct $28,000. Noted Mar. 6 and 13.

N. Y., Coney Island (Brooklyn P. O.)—Theatre—Chanin Constr. Co., (owner and builder) 104 West 29th St., New York, will build 104 x 185 ft., brick, steel and stone, plain foundation, Surf and Stillwell Aves. $1,250,000. Owner will award sub-contracts. Reilly & Hall, 405 Lexington Ave., New York, archts.

N. Y., New York—Apartment—E. Brandt, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., will build 5 story, brick, steel and stone, plain foundation, Edgecomb Ave. near 150th St., by day labor. $200,000.

N. Y., New York — Apartment — Broff Constr. Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Amsterdam Ave. and 188th St., by day labor.

N. Y., New York—Apartment—I. Feldman, c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., will build brick, steel and stone, plain foundation, Lexington Ave., by day labor. $500,000.

N. Y., New York—Apartment—M. Goldberg, c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., will build brick, steel and stone, plain foundation, East 169th St., by day labor. $200,000.

N. Y., New York—Apartment—S. Halperin, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Grand Ave., by day labor. $300,000.

N. Y., New York—Apartment—Owner, c/o Margon & Glaser, archts. and engrs., 2804 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Monroe Ave. and 174th St., by day labor. $150,000.

N. Y., New York—Apartment—L. Wolf, c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 5 story, brick, steel and stone, plain foundation, Teller Ave. and 169th St., by day labor. $175,000.

N. Y., New York—Banks—Italian Savings Bank, Spring and Lafayette Sts., brick, steel and stone, plain foundation, East 116th St., also 12 story, brick, steel and stone, plain foundation, Spring and Lafayette Sts., to Lignante & Udall, 29 West 34th St. Archts. ests. $150,000 and $750,000 respectively.

N. Y., New York—Nurses Home—Bellevue & Allied Hospital, 415 East 26th St., 5 story, brick, steel and stone, plain foundation, foot of East 26th St., to George A. Fuller, 175 5th Ave. Archts. est. $500,000. Noted Nov. 1.

N. Y., New York—Office—D. Greenberg, c/o G. and E. Blum, archts. and engrs., 505 5th Ave., will build brick, steel and stone, plain foundation, West End Ave., by day labor. $300,000.

N. Y., Schenectady—Chapel—Union College, brick and steel memorial chapel, on campus, to Hanrahan Bros., 336 Bwine Ave., $159,235. Noted Mar. 6.

Pa., Phila.—Apartment—Ballinger Co., archts., 12th and Chestnut Sts., 15 story and basement, 44 x 133 ft. brick and steel, **plain foundation, 19th and Spruce Sts.**, to Roberts & Roller, 1904 Sansom St., for 19th and Spruce St. Realty Corp., Land Title Bldg. Archts. est. $750,000. Noted Feb. 28.

Pa., Phila.—Church—Church of Transfiguration, 55th and Cedar Sts., 1 story and basement, 75 ft. high, 62 x 175 ft., steel and granite, plain foundation, 55th and Cedar Sts., to F. V. Warren Constr. Co., 1913 Arch St. Archts. est. $400,000. Noted Feb. 21.

Pa., Pittsburgh—Warehouse—J. Eichleay Co., 45 South 20th St., 6 story and basement, 120 x 304 ft., Wharton St., to Hughes-Foulkrod Co., Stevenson Foster Bldg., Archts. est. $500,000. Noted Mar. 6.

Pa., West Chester—Hospital—Chester Co. Hospital, 2 story and basement, 50 x 200 ft. steel and stone, plain foundation, to Longwood Constr. Co., Kennett Square. Archts. est. $250,000.

Md., Baltimore—Bath and Field House—Park Bd., Gay and Lexington Sts., will build 1 story, concrete and brick, plain foundation, Druid Hill Park, by day labor. $155,000. Noted Mar. 13.

Md., Baltimore—Insurance—C. N. and N. Friz, archts., Lexington Bldg., 3 story, 60 x 150 ft., rein.-con. and brick, plain foundation, Cathedral and Centre Sts., for Home Friendly Insurance Co., 1026 Linden Ave., to R. B. Mason, 308 West Madison St., $200,000. Noted Jan. 3.

D. C., Wash.—Apartments—M. and R. B. Warren, 1412 Eye St. N. W., owner and builders will build 6 apartments, Porter and 30th Sts. N. W., by day labor. $360,000.

Fla., Miami—Hotel—T. R. Knight and W. G. Just, constructing Hotel Commodore, 11 story, rein.-con. and steel, to contain 180 rooms, 2nd Ave. and 1st St., to R. B. McAlley, Miami, cost plus basis. Archts. est. $666,000.

Fla., Sarasota—Bank, Office and Store—J. H. Lord and 1st Natl. Bank, 7 story, 200 x 250 ft., Main and Central Sts., to G. A. Fuller Co., 949 Bway., New York, cost plus basis. Archts. est. $260,000.

La., Baton Rouge — Bank — Louisiana Natl. Bank, 8 story, (ultimately 12 story) 64 x 126 ft. rein.-con., brick, steel and stone, 3rd and Convention Sts., to Underwood Contg. Co., Louisiana Bldg., New Orleans, $60,000. Noted

La., Eunice—School—Bd. Educ., c/o Superintendent of Schools, Opelousas, 2 story, 154 x 189 ft. rein.-con. and brick, to Caldwell Bros., 816 Howard Ave., New Orleans, $123,475.

La., New Orleans—Church—R. DeBuys, archt., Hibernia Bank Bldg., 76 x 146 ft., 106 ft. high, steel, stone and hollow tile, to J. A. Petty, Godchaux Bldg., $166,000, for Church of Holy Rosary 3368 Esplanade Ave.

Ky., Hazard—Hotel—E. Middleburg, 2 story and basement, 78 x 103 ft., to I. A. Rhodes Constr. Co., 320 17th St., Ashland. Archts. est. $150,000.

O., Cleveland—Bank and Office—State Banking & Trust Co., c/o C. R. Dodge, pres., 734 Euclid Ave., 3 story and basement, 30 x 125 ft., brick, steel and concrete, Bway. and Hamm Ave., to Drummond-Miller Co., 7500 Euclid Ave. Archts. est. $150,000. Noted Feb. 14.

O., Cleveland—Clubhouse and Apartment—Fraternal Order of Eagles (Aeria 135), 2226 East 55th St., 3 story and basement, 100 x 150 ft. lodge, and 10 story and basement, 40 x 300 ft. apartment, brick, steel and concrete, East 40th St. and Windsor Ave., to J. F. Sperry, Pittsburgh Bldg., St. Paul, Minn. Archts. est. $1,500,000.

O., Cleveland—Office—Union Sq. Co., c/o W. I. Lewis, Williamson Bldg., altering and constructing 2 story and basement, 17 x 104 ft. brick and steel addition, East 8th

Buildings (Continued)

St. and Euclid Ave., to Van Blarcom Co., Plymouth Bldg. Archts. est. $500,000. Noted Feb. 21.

O., Garfield Heights (near Cleveland)—School—Ed. Educ. 2 story and basement, 60 x 150 ft., brick, steel and concrete, Turney Rd., to J. Grant & Son, 4500 Euclid Ave, Cleveland, $137,459. Noted Mar. 13.

Mich., Detroit—Theatre—Imperial Building Corp., 13311 Jefferson Ave., 3 story and basement, 140 x 160 ft. rein.-con., brick, steel and stone, plain foundation, Gratiot Ave., to J. N. Robertson, 13311 East Jefferson Ave. Noted Mar. 13.

Mich., Detroit—Warehouse—Natl. Terminals Corp., 930 Penobscot Bldg., 30 x 600 ft. loading shed, and two 3 story, 100 x 600 ft. and 100 x 500 ft. buildings, 1 story, 100 x 400 ft. building, rein.-con. and brick, plain foundation, Lonyo Rd., to Ferro Concrete Constr. Co., 3rd and Elm Sts., Cincinnati, O. Archts. est. $1,650,000. Noted Mar. 13.

Ill., Waukegan—Business—J. Blumberg, 112 South Genesse St., 5 story and basement, brick and concrete, plain foundation, to R. Maki, 627 McAlister Ave. Archts. est. $150,000. Noted Jan. 24.

Wis., Chippewa Falls—School—St. Marys Catholic Congregation, c/o J. McGuirk, 117 Allen St., rein.-con., brick and stone, plain foundation, to Schafer & Olson, 222 Bay St. Archts. est. $150,000. Noted Jan. 24.

Wis., Lacrosse—Garage—Fox Bros., 129 North 3rd St., 3 story and basement, 62 x 150 ft., to C. W. Noble, State Bank Bldg. $150,000.

Wis., Madison—School—Bd. Educ., 22 West Dayton St., 2 story and basement, 90 x 140 ft., rein.-con., brick and steel, plain foundation, Spooner St., to A. D. and J. V. Frederickson Co., 702 East Main St. Archts. est. $150,000. Noted Feb. 28.

Wis., Verona — Asylum — Dane Co., 2 story and basement, brick and steel, plain foundation, to Concrete Eng. Co., Colby Abbot Bldg., Milwaukee. Archts. est. $150,000. Noted Jan. 24.

Wis., Waupun—Hospital—State Bd. Control, c/o W. Lorenz, secy., Capitol, Madison, 2 story and basement, brick, rein.-con. and steel, plain foundation, to J. P. Cullen & Sons Co., Eastern Ave., Janesville, $135,331. Noted Mar. 13.

Minn., Duluth—Store—W. M. Prindle & Co., Lonsdale Bldg., representing R. M. Bradley and associates, Boston, 4 story and basement, 110 x 150 ft., rein.-con., brick and steel, Superior St. and Lake Ave., to G. H. Lounsberry, 322½ East Superior St., $300,000. Noted Sept. 27.

Neb., Omaha—College—Brownell Hall, c/o E. V. Shaylor, bishop, 202 Kennedy Bldg., 4 story and basement, Happy Hollow Dist., to P. Kiewits & Sons, 908 Omaha Natl. Bank Bldg., $200,000.

Neb., South Sioux City—High School—Bd. Educ., 3 story, 144 x 160 ft. rein.-con. and brick to B. E. Short, Sioux City, Ia. Archts. est. $150,000. Noted Nov. 29.

Mo., Kansas City—Office and Store—F. E. McIlvain, archt., 1001 Orear Leslie Bldg., 7 story and basement, 87 x 115 ft., rein.-con., brick, steel and stone, 12th St. and Grand Blvd., to Bickel Constr. Co., 901 A and R Bldg., for Palace Clothing Co., 909 Main St. Archts. est. $500,000. Noted Feb. 7.

Mo., Kansas City—Office—Kansas City Southern Ry. Co., 11th and Wyandotte Sts., general contract 2 story, 97 x 142 ft., rein.-con., brick and terra cotta addition, to Pratt-Thompson Constr. Co., Huntzinger Bldg. Archts. est. $150,000. Noted Jan. 10.

Mo., St. Joseph — Factory — Collier Adams Mfg. Co., 4th and Mitchell Aves., will alter and construct 3 story and basement, 94 x 139 9ft., rein.-con. and brick factory addition, also lumbersheds, 63 x 72 ft. dry kilns, 35 x 36 ft. boiler room, by day labor. $75,000. E. I. Meier, 203 Lincoln Bldg., archt. Noted Apr. 5.

Mo., St. Louis—Apartment—Berta Realty Co., 1650 South 39th St., general contract 3 story and basement, 60 x 137 ft., rein.-con., brick and stone, 39th St., to F. F. Meckfessel, 4604A Greer St. Archts. est. $150,000.

Okla., Tulsa — Store — Vandever Dry Goods Co., 109 South Main St., 5 story and basement, 60 x 135 ft., rein.-con., brick and stone, to Rucks & Brandt. Mid Continent Bldg. Archts. est. $250,000. Noted Jan. 3.

Colo., Denver—Church, etc.—Holy Ghost Catholic Church, 19th and California Sts., for partial construction 40 x 79 ft. parish house and 100 x 125 ft. church, rein.-con., terra cotta and brick, to Kirchoff Constr. Co., 718 Lawrence St., $170,000. Archts. total est. $350,000.

Calif., Alameda—Hospital—K. Creedon, 4 story and basement, rein.-con., Clinton and Willow Sts., to A. H. Vogt, 185 Stevenson St., San Francisco, $350,000. Noted June 6.

Calif., Beverley Hills—Theatre, Apartment and Store—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, 2 story, 100 x 150 ft., brick and concrete, here, to A. Bard & Co., Union Oil Bldg., Los Angeles, $150,000.

Calif., Glendale—Hotel—Ambrosini Hotel Co., 5 story, rein.-con., Bway and Glendale Blvd., to Kinne-Westerhouse Co., H. W. Hellman Bldg., Los Angeles, $420,000. Noted Aug. 9.

Calif., Lemoore—High School—Lemoore Union High School Dist., rein.-con., to contain 30 classrooms and auditorium, general contract to W. J. Ochs, 405 West Clark St., Fresno, $151,000. Noted Feb. 28.

Calif., Long Beach—School—First Congregational Church, 237 Cedar Ave., 3 story, 45 x 150 ft., brick addition, to McGrew & Sons, 1345 West Ocean Blvd. Noted Jan. 25, 1923.

Calif., Los Angeles — Hotel — Eastern Realty Co., c/o H. Gensler, archt., Hibernian Bldg., 4 story and basement, brick, Union Ave., to M. Coverlacheck, 605 North Cummings Ave., $182,000. Noted Mar. 6.

Calif., Los Angeles—Hotel and Store—Briggs & MacGowan, c/o I. H. Seehorn, archt., 328 Clay St., 4 story and basement, 60 x 150 ft., brick, 7th and Whittier Sts., to S. E. McRae, 5927 6th Ave., $155,000.

Calif., Piedmont — School — Piedmont Junior High School Dist., 1 and 2 story, rein.-con., general contract to Hannah Bros., 142 Sansome St., San Francisco. Noted May 17.

Calif., San Francisco — Apartment — J. Pasqualetti, Humboldt Bank Bldg., will build 6 story and basement, rein.-con., Van Ness Ave., by day labor. $235,000.

Calif., San Francisco—Store and Office—Crocker Estate Co., Crocker Bldg., 4 story and basement, Class A, brick and steel, Market St., to Dinwiddie Constr. Co., Crocker Bldg., $400,000. Noted Nov. 15.

Federal Government Work

PROPOSED WORK

N. Y., Buffalo—Barges—U. S. Engineer, Buffalo, plans to purchase 8 steel deck barges, 30 x 100 ft.

Fla., Jacksonville—Dredge Depot, etc.—U. S. Engineer, Jacksonville, plans dredge depot incl. 300 ft. pier, here.

Ind., Leavenworth — Water Turbine — U. S. Engineer, P. O. Box 72, Louisville, Ky., plans to purchase one 33 in. water turbine complete with gearing, etc., for Dam 44, here.

BIDS DESIRED

Pa., Tobyhanna—Pumps, etc.—Apr. 1, by Quartermaster, Tobyhanna, furnishing and installing 2 centrifugal pumps, constructing water tank, concrete reservoir, etc., here.

Del., Wilmington—Excavating—Apr. 19, by U. S. Engineer, excavating in inland waterway from Delaware River to Chesapeake Bay; adv. E. N.-R. Mar. 20.

Tenn., Memphis—Fuel Oil Pump, etc.—Mar. 31, by Mississippi River Comn., 1st and 2nd Dists., Room 1006 McCall Bldg., Memphis, fuel oil pumps, oil meters, strainers and oil suction hose; adv. E. N.-R. Mar. 20.

Ky., Louisville—Pumps—U. S. Engineer, P. O. Box 72, Louisville, in market for 2 horizontal duplex piston pumps, capacity 140 gal. of oil per minute at pressure up to 300 lb.

O., Cincinnati—Power Houses—Apr. 7, by U. S. Engineer, Cincinnati, constructing power houses at Dams 34, 36, and 38 Ohio River; adv. E. N.-R. Mar. 20.

Mich., Detroit—Riprap—Apr. 18, by U. S. Engineer, Detroit, furnishing and placing and for recovering and replacing stone riprap, at Harbor Beach Harbor; adv. E. N.-R. Mar. 20.

Mich., Hastings—Post Office—Apr. 15, by Treas. Dept., Office Supervising Architect, Wash., D. C., 1 story, 55 x 79 ft. brick and tile post office, here; adv. E. N.-R. Mar. 20.

Calif., San Diego—Surface—Apr. 2, by Bureau Yards & Docks, Navy Dept., Wash., D. C., surface for parade ground at Training Sta. here.

BIDS RECEIVED

Ky., Addison—Lumber—U. S. Engineer, P. O. Box 72, Louisville, furnishing 820 pieces (177,000 ft.) 12 x 12 in. x 18 ft. yellow pine, from W. R. Willett Lumber Co., Starks Bldg., $48 per m. Noted Mar. 13.

Ky., Pikesville—Hospital—U. S. Veterans Bureau, Room 791, Wash., D. C., constructing complete U. S. Veterans Hospital, here, from Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., (1) $194,100 (2) no bid (3) no bid (4) add $2,600 (5) $100 (6) deduct $1,350 (7) deduct $3,300 (8) $150 (9a) $1 (9b) $2.50 (9c) $12 (9d) $13 (9e) $0.75 (9f) $110 (9g) $0.25 (9h) $0.20 (240 days). Noted Feb. 21.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer, Providence, maintenance dredging in Stamford and Greenwich Harbors, to J. S. Packard Dredging Co., Turks Head Bldg., $50,510. Noted Feb. 28.

Pa., Phila.—Rubber Dredging Sleeves—U. S. Engineer, War Dept., Wash., D. C., rubber dredging sleeves, to Goodyear Tire & Rubber Co., East Market St., Akron, O., $25,738.

Ala., Florence—Cement—U. S. Engineer, furnishing cement for Wilson dam, 75,000 bbl. to Dixie Portland Cement Co., James Bldg., Chattanooga, Tenn., $158,200; 20,000 bbl. to Lehigh Portland Cement Co., Birmingham, Ala., $45,000; 20,000 bbl. to Atlas Portland Cement Co., B. M. Bldg., Birmingham, $45,000.

Ky., Addison—Soft Steel Rods, etc.—U. S. Engineer, P. O. Box 72, Louisville, furnishing 70 tons round steel soft rods and structural steel angles, to Knoxville Iron Co., Lonsdale Ave., Knoxville, Tenn., $2.81 per cwt. Noted Mar. 6.

Wash., Puget Sound — Barrack — Spec. 4928—Bureau Yards & Docks, Navy Dept., Wash., D. C., barrack for operators at Navy Yard radio station, to Parker & Wood, Bremerton, $13,913 (90 days). Noted Jan. 31.

Unclassified

PROPOSED WORK

Transmission Line—New York—Kingston Gas & Electric Power Co., 611 Bway., Kingston, plans 3 phase high tension transmission line extension in Olive Twp. To exceed $50,000.

Subway—Eldorado (Altoona, P. O.), **Pa.**—Blair Co. (Hollidaysburg) and Pennsylvania R.R. plan 80 ft. concrete and stone subway under railroad tracks at Burns Crossing, here. $25,000. D. A. McCloskey, Hollidaysburg, engr.

Lighting System — Palm Beach, Fla. — Mar. 31, to vote on $25,000 bonds extending lighting system. M. A. Taylor, clk.

Transmission Line and Distribution System—Kansas—City of Grainfield had plans prepared transmission line and distribution system from Grainfield to Grinnett. $40,000. A. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

White Way—Dallas, Tex.—City making plans white way on Young St. from Harwood to Jefferson Sts., ornamental standards, cable, etc. $80,000. E. A. Kingsley, city engr.

Park—Houston, Tex.—City plans improving Sam Houston Park, incl. larger lake, also miscellaneous work in other parks, to exceed $30,000 J. C. McVea, city engr. S. H. Hare, Houston, landscape architect.

Distributing System—Carmichael, Calif.—Carmichael Pub. Utility Dist. defeated $60,000 bonds for electrical distributing system. Noted Dec. 13.

Street Lighting System — Los Angeles, Calif.—Plans installing 136 concrete standards, etc., on North Bway., Lincoln, Park and Pasadena Aves. J. A. Griffin, city engr.

Pier and Harbor Improvements — San Diego, Calif.—Election May 20, $225,000 bonds, completing Municipal Pier 2, and $250,000 for harbor development. F. A. Rhodes, city engr.

Pier, Retaining Wall, etc.—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., having plans prepared, Pier No. 50, $1,000,000 to $1,500,000; retaining wall and fill in lands at Islais Creek; additional docking facilities at China Basin, total $2,000,000. F. G. White, ch. engr. Noted Sept. 20.

Breakwaters—Venice, Calif.—City plans to vote on $180,000 bonds for 2 breakwaters, 5,500 ft. long, 25 ft. above low water level, average top width 12 ft.

Oil Pipe Line—Mexico—Huasteca Petroleum Corp., El Bano, plans new oil pipe line from El Ebano to port of Tampico. $1,000,000. Work will probably be done by day labor. Private plans.

BIDS DESIRED

Heating and Ventilating Apparatus — Flushing, N. Y.—Mar. 24, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S 107,

Unclassified (Continued)

Franconia Ave., Upper Flushing, here, for Bd. Educ., 500 Park Ave., New York City.

Heating and Ventilating Apparatus—New York, N. Y.—Mar. 24, by W. H. Gompert, supt. School Buildings, Flatbush Ave. and Concord St., Brooklyn, heating and ventilating apparatus in George Washington High School, Audubon Ave., also in P. S. 70, Weeks Ave., for Bd. Educ., 500 Park Ave. Former contract rescinded. Noted Feb. 21.

Heating and Ventilating Apparatus—Richmond Hill (branch of Jamaica), **N. Y.**—Mar. 24, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 108, Suwanee Ave., here, for Bd. Educ., 500 Park Ave., New York.

Electric Light Line—North Carolina — Apr. 1, by W. S. Elks, mayor of Grimesland, 9 mi. electric light line from Washington to Grimesland. $30,000. E. P. Meredith, Washington, engr.

Grade Separation—Detroit, Mich.—Mar. 25, by Wayne Co. Rd. Comn., 1103 Real Estate Exch. Bldg., grade separation, depressing Eureka Rd. under Detroit, Toledo and Ironton R. R., 15,000 cu.yd. excav., 600 cu.yd. rein.-con., pumping station, etc. $35,000.

Lock—Marked Tree, Ark.—Mar. 25, by Bd. Directors D. D. 7, Poinsett Co., rein.-con. lock near here, 2,800 cu.yd. concrete, 460,000 lb. reinforcing steel, 3 or 4 24 x 30 in. vertical lift headgates, etc. Elliott & Harmon, Bank of Commerce Bldg., Memphis, Tenn., engrs.

BIDS RECEIVED

Rein.-Con. Floor—Buffalo, N. Y.—Dept. Parks & Buildings, City Hall, Mar. 11, 6 in. rein.-con. floor in wading pool (500 ft. diam.), in Humboldt Park, from Peoples Paving Co., Inc., 85 Roma Ave., $68,900. Noted Mar. 6.

Subway Entrance—New York, N. Y.—Transit Comn., 49 Lafayette Ave., Mar. 14, additional entrance to Mott Haven Station of 7th Ave.-Lexington Ave. Rapid Transit R.R., Mott Ave. and 138th St., Bronx Boro, Agreement "CB," from Pattelli & Wilson, $15,435. Noted Mar. 13.

Tunnel—Seattle, Wash.—Bd. Pub. Wks., Mar. 7, completing concrete lined tunnel, from J. H. Tillman, Portland, Ore., driving tunnel 350 ft., $600, lining tunnel, 531 cu.yd., $100, grout 50 cu.yd. $100, driving grout holes 100 ft. $10, under Duwamish Waterway, etc., total $274,750. Noted Feb. 28.

Street Lighting System — Hawthorne, Calif.—Ornamental lighting system, West Raymond Ave. and portion Hawthorne Ave., etc., from Electric Service Co., Redondo, $29,700.

CONTRACTS AWARDED

Power and Lighting System—Annapolis, Md.—State Rds. Comn., Baltimore, electric wiring and power equipment for Severn River Bridge, near here, to E. Bauernschmidt, 1522 North Gay St., Baltimore, $16,850. Noted Mar. 6.

Terminal, etc. — Louisville, Ky. — Inland Waterways Co., 316 West Jefferson St., terminal on waterfront here, incl. 1,100 ft. retaining wall, trestle, etc., to H. Bickel Co., 443 West Garden St. Est. cost $100,000. Noted Feb. 28.

Grade Separation—Springwells, Mich.—B. P. Esper, village clk., grade separation on Schaefer Rd. on main line of Michigan Central R.R., incl. grading and paving 1,425 ft., pumping station, steel deck bridge encased in concrete, rein.-con. walls and piers, etc., to M. E. White Co., 130 North Wells St., Chicago, $389,000. Noted Mar. 6.

Retards — Missouri — State Hy. Dept., Jefferson City, two 100 ft., eight 150 ft. and eight 200 ft. current retards for Missouri River bank protection project in connection with bridge at Glasgow, Federal Aid Project 217, Howard and Saline Counties, to Woods Bros. Constr. Co., Lincoln, Neb., $189,000. Noted Mar. 6.

Wharf, etc. — Alameda, Calif. — Alaska Packers Assn., Wells Fargo Bldg., San Francisco, soon takes bids wharf, 500 to 1,000 ft. long, foot of Grand Ave., here. F. G. White, Ferry Bldg., San Francisco, engr. for wharves. P. L. Bush, 101 Calif. St., San Francisco, engr. for buildings. Piling contract let to St. Helens Creosoting Co., Matson Bldg., San Francisco. Total cost $1,000,000.

Material and Equipment

PROPOSED WORK

Street Sweeper—Huntsville, Ala.—City Council authorized mayor and city clerk to spend $7,000 for motor driven street sweeper.

Tractor, etc.—Herkimer, N. Y.—Bd. Village Trustees plans to purchase tractor and snow plow. $5,000.

BIDS DESIRED

Asphalt, etc.—Holyoke, Mass.—Mar. 25, by Bd. Pub. Wks., asphalt for penetration, cement, coal, cold patch, curbing, expansion joint, pitch, reinforcing rods, road oil, tar for penetration and trap rock for 1924 season. G. F. Stone, asst. clk. This corrects report in Mar. 6 issue.

Bituminous Material — Albany, N. Y. — Mar. 28, by A. W. Brandt, comr. highways, bituminous material "A" and "T." Contrs. 1 to 7 inclusive, f.o.b. railroad cars at destination for use by State Dept. Pub. Wks. Bureau Highways; adv. E. N.-R. Mar. 20.

Mixers, etc.—Buffalo, N. Y.—See "Industrial Works."

Dump Trucks—Long Island City—Mar. 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., two 7½ ton motor dump trucks to Bureau Highways.

Electric Cranes—Sharon, Pa.—Westinghouse Electric & Mfg. Co., East Pittsburgh, in market for one 75 ton, one 50 ton, one 30 ton, four 15 ton, three 5 ton and two 3 ton electric cranes for plant, here.

Patch Material and Stone—Towson, Md.—See "Streets and Roads."

Crane — Wash., D. C. — Southern Ry., Southern Bldg., in market for 10 ton crane.

Cement—Milwaukee, Wis.—Mar. 24, by Central Bd. Purchases, City Hall, 20,000 bbl. cement.

Stone Crusher—Platteville, Wis.—Apr. 3, by J. J. Stephenson, city clk., one stone crusher having 10 x 20 in. opening, 20 ft. elevator, 15- to 25-ton per hour, with and without screen.

Reinforcing Bars and Spirals—Minnesota—Apr. 7, by Hennepin Co. (Minneapolis), 800 tons reinforcing bars and 78 tons spirals for Fort Snelling-Mendota Bridge. Walter H. Wheeler, 1112 Metropolitan Life Bldg., Minneapolis, engr. Noted Mar. 6 under "Bridges."

Paving Materials—St. Paul, Minn.—Mar. 25, by H. W. Austin, city purch. agt., 6,700 bbl. portland cement, 3,976 sq.yd. brick, 5,080 cu.yd. crushed rock or gravel, 3,169 cu.yd. concrete sand, 388 tons asphalt, 388 tons limestone dust, etc. G. M. Shepard, city engr.

Road Machines—Grand Forks, N. D.—Apr. 2, by Grand Forks Co., 6 road maintenance machines, for either 2 or 4 horses, 6-8 ft. blades, etc.

Refined Tar—Clayton, Mo.—Mar. 26, Clayton Co., 100,000 gal. refined tar for use on roads during 1924. $11,500. H. Jablonsky, Court House, engr

Cast Steel Castings, etc.—St. Louis, Mo.—Mar. 31, by G. E. Scott, purch. agt. for Missouri-Kansas-Texas R.R., 1520 Ry. Exch. Bldg., 150 tons miscellaneous cast steel castings and 87 tons locomotive and car bolsters and side frames to be furnished as needed during 2nd quarter of 1924.

Tractors—San Antonio, Tex.—Mar. 31, by A. McCloskey, judge Bexar Co., two 10-ton tractors, caterpillar or track layer types, for use in precincts 1 and 4. W. S. Kendall, aud.

Fire Hydrants—Redondo Beach, Calif.—City plans to vote on $10,000 bonds for fire hydrants.

BIDS RECEIVED

Paving Block, etc. — Buffalo, N. Y.—Commissioner Pub. Wks., Mar. 7, from B. F. Spire, 24 Colonial Circle, paving stone $10 per ton, dressed block stone $3.50 per yd., crosswalk stone $2 per yd., curbing $1.25 per ft.; from Buffalo Crushed Stone Co., 1048 Ellicott Sq., crushed stone, etc., at city yard $2.58 per cu.yd., macadam streets $2.05 per cu.yd., our plant $1.50 per cu.yd., any street $2.40 per cu.yd., (a) grits weight 2,800 lb. per cu.yd. $0.95, (b) fine sand weight 2,500 lb. per cu.yd., $1.10 net ton, (c) gravel weight 3,200 lb. per cu. yd., $0.85 per net ton, delivering to city yard in truck load lots, (a) $1.35 (b) $1.50 (c) $1.25; 1st Dist. (a) $1.35 (b) $1.50 (c) $1.25; 2nd Dist. (a) $1.50 (b) $1.65 (c) $1.40; 3rd Dist. (a) $1.65 (b) $1.80 (c) $1.55; 4th Dist. (a) $1.80 (b) $1.95 (c) $1.70; 5th Dist. (a) $1.95 (b) $2.10 (c) $1.85, 2% discount allowed if paid within 10 days from date of bill; from Holloway Sand Co., 75 Andrews Bldg., (a) gravel weight 3,200 lb. per cu.yd. $0.83 per net ton, (b) coarse sand weight 2,800 lb. per cu.yd. $0.93 per net ton, delivered to city yard by truck (a) $1.23 per net ton (b) $1.32 per net ton; 1st Zone (a) $1.22 (b) $1.32; 2nd Zone (a) $1.37 (b) $1.47; 3rd Zone (a) $1.52 (b) $1.62; 4th Zone (a) $1.67 (b) $1.77; 5th Zone (a) $1.82 (b) $1.92; from L. Rupp, 42 Haven St., grading unpaved streets, opening gutters, rounding roadway, rolling and surfacing with hard material, etc., (a) $0.65 per cu.yd. (b) $0.25 per cu.yd. (c) $0.75 per cu.yd. (d) $0.10 per lin.ft.; from Eclipse Paving Co., laying sidewalks $0.1418 per ft., extra strength $0.24 per ft.; from L. S. Chamber, 30 West Northrup St., sidewalk approaches $0.26 per ft. Noted Feb. 28.

Gravel — Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, furnishing 12,004 cu.yd. washed gravel delivered at Many, and 3,981 cu.yd. washed gravel delivered at Boleyn Spur, from Rapides Gravel Co., Alexandria, $2.97 and $2.56 respectively.

Road Oil—Manitowoc, Wis.—For 60,000 gal. road oil, from Amer.-Mexican Refining Co., 11 South La Salle St., Chicago, $0.598 per gal.

CONTRACTS AWARDED

Steam Roller—West New Brighton, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, New Brighton, one 10 ton 3 wheel steam roller equipped with steam pressure scarifier, at store yard of Bureau of Highways, Dubois Ave., here, to Galion Iron Wks. & Mfg. Co., 596 Bway., New York City, $4,820. Noted Feb. 14.

Markers—Wisconsin—State Hy. Comn., Madison, metal highway markers, number plates, mile numbers, etc., to Special Mchy. & Mfg. Co., 1919 St. Paul St., Milwaukee, approximately $40,000. Noted Feb. 7.

Road Tar—La Crosse, Wis.—La Crosse Co., 200,000 gal. road tar, to Barrett Co., 214 West Monroe St., Chicago; about 300,000 gal. to Amer. Tar Products Co., 208 South La Salle St., Chicago. Noted Feb. 21.

Lumber, Steel, etc.—Algona, Ia.—Kossuth Co. 40,000 lb. reinforcing steel, to Pittsburgh-Des Moines Steel Co., Tuttle and South West 10th St., Des Moines, $1,210; 7,000 ft. 12 in. corrugated culvert pipe, to Ft. Dodge Culvert & Steel Co., Ft. Dodge, $4,795; 500 ft. 15 in. corrugated culvert pipe, to Independence Corrugated Culvert Co., Independence, $445. Noted Feb. 28.

Bridge Lumber — Guthrie Center, Ia. — City, 172,800 ft. bridge lumber and 6,000 ft. yellow pine piling to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, Neb., $37.40 per m. and $0.44 per ft. respectively.

Paving Materials—Minneapolis, Minn.—For 3½-in. creosoted wood block, 23,000 sq.yd. to Midland Creosoting Co., 2438 Bway., Toledo, O., $2,395 per sq.yd., 25,000 sq.yd. to Indiana Wood Preserving Co., 111 West Washington St., Chicago, $2.51 per sq.yd. and 25,000 sq.yd. at $2.52, all prices f.o.b. Minneapolis; 1,200 tons asphalt, to New Orleans Refining Co., Maison Blanche Annex, New Orleans, La., $21.09 per ton. Noted Mar. 6.

Road Oil—Minneapolis, Minn.—For 1,750,000 gal. road oil, to Roxanna Petroleum Co., Arcade Bldg., St. Louis, Mo., $0.0611 per gal. Noted Feb. 28.

Ladders, Fir, Gate Valves, etc.—St. Paul, Minn.—H. W. Austin, city purch. agt., furnishing and delivering 9,067 lb. miscellaneous w.i. and c.i. ladders, etc., to St. Paul Fdry. Co., Como Ave. and Mackubin St., $710; 2,000 pieces 2 x 8-16 No. 1 flr and 500 pieces 2 x 4-16, to Thompson Yards, 2694 University Ave., $37.25 and $37.75 per M., respectively; 500 pieces 4 x 4-16, 300 pieces 3 x 8-16, and 500 pieces 1 x 6-16, to Burns Lumber Co., Atwater Ave. and Arundel St., $44, $45 and $38 respectively; 2 horizontal swing type check valves for Water Dept., 2 vertical spur-geared hand-operated gate valves and 2 vertical hydraulic gate valves, all 30-in., to Michigan Valve & Fdry. Co., Amer. Trust Bldg., Detroit, Mich., $6,588. Noted Feb. 14.

Concrete Culvert Pipe—Pierre, S. D.—State Hy. Dept., furnishing rein.-con. culvert pipe to Canton Block & Tile Co., Canton, 4,472.5 ft. 15 in. $0.75, 12,042.5 ft. 18 in. $0.98, 2,035 ft. 24 in. $1.36, to South Dakota Concrete Products Co., Watertown, 4,175 ft. 15 in. $0.79, 12,200 ft. 18 in. $1.05, 3,620 ft. 24 in. $1.46, 702.5 ft. 30 in. $2.07.

Road Oil — Independence, Mo. — Jackson Co., 2 m.g. road oil, to Eureka Petroleum Co., Gloyd Bldg., Kansas City, $0.045 per gal.

Asphaltic Cement, etc.—St. Louis, Mo.—G. H. Oetting, supply comr., City Hall, 1,200 tons asphaltic cement for Street Dept., to New Orleans Refining Co., Maison Blanche Annex, New Orleans, La., $18.20 per ton, f.o.b. St. Louis; 500,000 gal. more or less road oil, to R. J. Brown Petroleum Co., Boatmens Bank Bldg., $0.05 per gal., f.o.b. St. Louis. Noted Feb. 28.